[76] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six; seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone. identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

- In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.
- In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.
- [81] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent

hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

- [82] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.
- In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.
- [84] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization

conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[87] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next

sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

Many polynucleotide sequences, such as EST sequences, are publicly available [88] and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the fourth column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

					T
	SEQ	22		. 2	*
Clone ID	NO:			isclaimer ·	·
NO: Z	X X	Contig ID:	Range of a	Range of b	Accession #'s
HHMMC14		1152250	1 - 1314	15 - 1328	AI086374, AI985881, AI760724,
		1132230		15 1520	AW025363, AI744911, AI417334,
ļ					AI608898, AI185630, AI086397,
}					AI419401, AI983536, AW250705,
1					AA657972, W28944, AA767300,
			i		AA706825, AI587185, AI189408,
			,		AW248699, AW073190, AI347314,
		* .			AI524186, AA563745, AA495799,
		1			AI168297, AI310528, AW130176,
	1	}	}		AA838407, AI955019, AI346558,
1					AI356497, AI028668, AA917828,
			}		AW246849, AI140292, AÏ084924,
		j	ŀ		AA232967, AI148985, AI678784,
					1 TOO 1 TOO 1 TO 1 TO 1 TO 1 TO 1 TO 1
	·		Ī	'	AI150722, AI276605, AI014882,
1	1.		<u> </u>		AI803268, AW169494, AI333698,
	ľ	[·		i	AI333302, AA253369, AI740611,
		ł			AI831634, AA670367, AI082804,
	}			i	AI080366, AA777091, AI816955,
	-				AI753298, AW028800, AI679052,
	1	}		1	AA764739, AI215157, AI393800,
1			χ.		AA148919, AW404750, W49510,
					AI087262, AI197944, AI089710, T70527,
20		1			AA253492, N54782, AI344641, AI460108,
				(AI933303, AA315786, W79013, AI539484,
ľ					T79608, AA076080, AI971904, AA300208,
	•				AI290314, AA677875, AI347377,
	·	ĺ			AI183485, AA743340, AA775359, D63259,
				į .	AA989095, AA507572, AA705697,
	1				W16716, R83908, AI362504, AA749447,
		1	ł	Ì	AA708333, AI857590, W46838,
					AW069333, AA495736, AA410264,
					H57844, AA625770, N79535, AI262439,
1		1	1		T68602, N90776, AA865920, W19200,
		. *			AA306173, AA865906, AA099528,
			· ·		AW192370, W80405, AA234363,
Į.		1			AA128388, AW249131, T30208, R83907,
					AA194982, N75707, AA362705, AI221840,
	• •			}	AA458624, AI921358, AA194997,
					AA808409, AA588355, AA887944,
		1		1	AI264098, AA234413, C17057, W49511,
1		1			N90242, AI245717, T16103, AI127393,
1	1	1		}	AA255797, AA933878, AA557707,
					AA641364, AA256690, H63263, T34009,
1				1	H38215, AA480658, AI041628, AA148891,
i		l		1	AI587030, AA199839, T78631, T81385,
1					AI368525, AA358466, N49510, AA336108,
1]	}	AA377553, AA309101, T72836, AI468707,
1	0				AW131524, AI264469, AI283776,
1					AI269350, H44001, AI080399, T81384,
ľ			}		T68683, AI990425, T72355, N75325,
-					AA199911, AA233135, AA846765,

AI352057, AI954908, AI	422513,
AI434527, AA887052, A	A406584,
AA359371, F37868, WO	
H37992, T79693, R8247	
AA552356, H59969, AI8	
AA099527, AI695607, A	•
AI924257, AA767829, T	73246, F28542,
AA428810, D25570, AA	091800,
AA805180, AA429337, I	R36837, AI241215.
T41059, C20939, AA346	
AA248560, AA808574,	
AL036736, AF134895, A	
AF113251, and AF1466	89.
HSLEQ79 12 1184946 1 - 660 15 - 674 AA199788.	
HUCME08 13 1082023 1 - 612 15 - 626 AW250705, W16716, W	28944,
AW404750, AA315786,	AI460108.
D63259, AA255797, AW	
AJ041628, AA148891, A	
T72836, T68683, T7235	
AA358466, AA359371, Y	
AI760724, W79013, AA	
AA410264, AI311094, N	
AI310528, N75707, AA6	605086, AI086374,
AA495736, AF134895, A	AF146018,
AF113251, and AF1466	
HNGOW33 14 1152254 1 - 1146 15 - 1160 AI526183, A38246, ARC	
AR029497, and A11524	
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
AI521923, AI028459, AI	
AI333579, AA703357, A	
AI972753, AI964003, AI	656960,
AA877725, AI804669, A	1682438,
AI669759, AI624888, A'	W196667.
AI638764, AI076149, AI	
AI610987, AA625737, N	
AI535962, AW014594, A	
	•
AI424567, AA576561, H	*
AW134874, AA541628,	
AI198343, N93695, AI9	
W21033, AI814342, AI9	
AI366738, AW001123, G	C14331, C14429,
D59859, AW177440, TO	
AW179328, D80188, AV	
D58283, D80022, D8016	
D80193, D59927, D5946	
D59619, D80210, D8039	
D59275, AW178762, D8	
	27. D59502.
D80043, D59787, D8022	-
D80043, D59787, D8022 AW378532, D81030, AV	-
	V352117, D80212,
AW378532, D81030, AV D80196, D80219, C1507	V352117, D80212, 6, D80269,
AW378532, D81030, AV D80196, D80219, C1507 D57483, D59610, D8003	V352117, D80212, 6, D80269, 8, D80366,
AW378532, D81030, AV D80196, D80219, C1507 D57483, D59610, D8003 AA305409, D51022, D5	V352117, D80212, 6, D80269, 8, D80366, 0979, D50995,
AW378532, D81030, AW D80196, D80219, C1507 D57483, D59610, D8003 AA305409, D51022, D50 D59889, D80024, AW17	V352117, D80212, 6, D80269, 18, D80366, 1979, D50995, 7501, AW177511,
AW378532, D81030, AW D80196, D80219, C1507 D57483, D59610, D8003 AA305409, D51022, D50 D59889, D80024, AW17 AW360811, D80378, AW	V352117, D80212, 6, D80269, 18, D80366, 19979, D50995, 7501, AW177511, V176467,
AW378532, D81030, AW D80196, D80219, C1507 D57483, D59610, D8003 AA305409, D51022, D50 D59889, D80024, AW17 AW360811, D80378, AW AW375405, C14014, AW	V352117, D80212, 6, D80269, 8, D80366, 9979, D50995, 7501, AW177511, V176467, V178775, D80241,
AW378532, D81030, AW D80196, D80219, C1507 D57483, D59610, D8003 AA305409, D51022, D50 D59889, D80024, AW17 AW360811, D80378, AW AW375405, C14014, AW AA305578, AI557751, D	V352117, D80212, 6, D80269, 8, D80366, 9979, D50995, 7501, AW177511, V176467, V178775, D80241, 980045, D51060,
AW378532, D81030, AW D80196, D80219, C1507 D57483, D59610, D8003 AA305409, D51022, D50 D59889, D80024, AW17 AW360811, D80378, AW AW375405, C14014, AW	V352117, D80212, 6, D80269, 8, D80366, 9979, D50995, 7501, AW177511, V176467, V178775, D80241, 980045, D51060,

		-			AW360817, C75259, D80248, D81026,
					AW375406, AW378534, AW377672,
	1			-	AW179023, AW178905, AA514188,
	j ·)	1		AW378540, AW352171, D80522,
			1] .	AW377676, AW352170, D80251,
j .				l	AW177731, AW179329, AW178907,
	!			•	AW378528, AW179019, AW179024,
		[AW360834, AA514186, D80133,
			i	'	AW178906, AW177505, AW179020,
		İ		i	
					D80134, AW178909, AW177456,
	}		}		AW178980, AW177733, AW178908,
	1	1			AW178754, AW179018, D58253, D51097,
	1				AW179004, C05695, D80439, D80268,
	i	1	l '		AA809122, AW178914, AW178774,
	}		•	<u> </u>	D80247, AW378543, AW378525,
			1		AW178911, T48593, F13647, D80302,
	100			1	D80132, AW178781, AW352163, D51103,
].	1	AA285331, C14227, AW178983,
1					AI935359, D80064, D80157, AW367950,
1 .	1	ł	l	l	C06015, AW177723, AW178986,
					AW367967, D80314, T11417, AI535959,
		1	a •		AW352174, AW378533, D45260,
1	1	1.	ł		AI535686, D58246, D59503, C03092,
	1	İ			
	-				H67854, AF077740, Z97630, AF093403,
	1		1		A84916, A62298, Y17188, AR018138,
1	j	J'		Ì	A62300, X82626, Y11505, D88547,
	-			4	A78862, X67155, A67220, D89785,
	1				A30438, D34614, D26022, AJ132110,
	A.				A25909, X68127, AF058696, U79457,
	- "				AR008278, AR025207, Y12724, A82595,
.] .	l	ļ.	i		AB028859, AR008443, Y17187, A94995,
				·	AB012117, I50126, I50132, I50128,
]	ľ			I50133, AR066488, AR060385, AR016514,
	ł	1	i		AR060138, D50010, A45456, A26615,
	1			·	AR052274, A85396, AR066482, Y09669,
İ	0	1			A44171, AB002449, AR066487, A85477,
			1		119525, A43192, A43190, AR038669,
[,		1		
	ļ -	ļ. , ·]		A86792, AF135125, X93549, D88507,
Ì	1	•	l · ˈ		U46128, AR016691, AR016690, I18367,
	İ		1		A63261, D13509, AR060133, AR066490,
	1	l	}		A70867, AR008408, AR062872, A64136,
	1	l .	1	}	A68321, I14842, AF123263, AR054175,
	·				AR008382, and AW772362.
HAQBZ89	16	949061	1 - 311	15 - 325	AL042537, and W16450.
HCCCC81	17	949062	1 - 1297	15 - 1311	AI436552, AW071796, AI299053,
		1	j	· .	AI334145, AI161282, AI613263,
1	1		1		AI018067, AI921361, AI934889,
			ŀ		AI984679, W52097, AI281829, AA236375,
	1	1		·	AA121294, AI342850, W16450,
	1		0	ĺ	
1 .	1]		AA729045, AA608803, N78654,
]		AW135827, AW193167, AI689644,
			i		N46334, AI159772, AA456075, AA130122,
1	1				N63941, N58535, AA367722, AL042537,
1					AA969946, AI432541, AA781924,
[AA829498, AW304842, AI299054,
			ľ		T69736, AW194058, AW170746,
		.		,	AI382899, AA862441, AA257021,
					AA345125, AI049756, AI983846,
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HCWDL45	55 56	889416 1125258	1 - 397	15 - 411 15 - 448	AB026436, AR043113, and AR054110. Z98747, AC023100, and Z98747.
HCWDL45 HCWEI19	55 56	889416 1125258	1 - 397 1 - 434	15 - 411 15 - 448	AB026436, AR043113, and AR054110. Z98747, AC023100, and Z98747. AI657485, C14723, C14322, C14391,
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HSSGE35	180	1228152	1 - 1116	15 - 1130	AW027617, AI761852, AW167655,
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НГХНЈ89 ННРТС55	192 193	907938 1106390	1 - 950 1 - 663	15 - 964 15 - 677	AL134779, AW403151, AB018352, and AW594431.
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HWAAX38	208	943936	1 - 1302	15 - 1316	AA258959, AA255426, N30506, W03086,
					AA255592, AA296423, W24603,
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HMSFN70	209	1210794	1 - 2788	15 - 2802	AI302253, AI681108, AA401235,
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HUSGB93	210	1224029	1 - 971	15 - 985	AW406527, H97426, AA643182,
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HELHL56	211	1164004	1 - 1767	15 - 1781	AL134932, AI424948, AA278217,
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j .			·	·	AW362782, AA278663, and AA994437.
HOENY85	212	1191756	1 - 1532	15 - 1546	AA160640, AA278217, AL134932,
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			l		AA321353, AI810397, E16580, AF035268,
ļ	<u></u>			L	AF035269, and U37591.
HPIAT34	215	-936262	1 - 562	15 - 576	AA156832, AI810397, AA299371, T96213,
	· ·				U37591, E16580, AF035268, and
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HDPPO41	216	1204324	1 - 3071	15 - 3085	AI139882, AW372581, AA442710,
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					AA156521, AI370468, H16148, AA883256,
		•			T80865, AI359674, AA844103, AA771780,
					M55905, AF116275, AF116274, AI684161,
				<u></u>	and AW589736.
HMSHI83	217	1204709	1 - 2376	15 - 2390	AA442710, AW372581, AA877904,
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AI889011, AW119231, AI9496	
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HOVCO14	244	947999	1 - 580	15 - 594	AI701529, AA994711, AI192036, and AC007198.
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HIDWDI.	249	890384	1 - 391	15 - 605	AW410520, Z21669, AA334183,
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			a * \	7	AL080147, AL080150, X69026,
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					U72620, D83032, AB014082, AC004399,
					Z82250, U95739, AC002540, AF179633,
		4			AP000514, AL030998, AL034417,
					AC002416, AC004686, AC009501,
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	,	* *		*	AC018767, AC005224, AC004485,
			ē		AC002287, AC005296, AC007392,
		4000.400			AC009233, and AR038904.
HWBDP39	270	1223498	1 - 3163	15 - 3177	AC009233, and AR038904. AI830320, AI650699, AA425859,
HWBDP39	270	1223498	1 - 3163	15 - 3177	AC009233, and AR038904. AI830320, AI650699, AA425859, AL135164, AW407213, R93643, T08247,
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HWBDP39	270	1223498	1 - 3163	15 - 3177	AC009233, and AR038904. AI830320, AI650699, AA425859, AL135164, AW407213, R93643, T08247, AA903976, AI339150, AA393578, D81801, AA069108, H05354, T78715, H17603, AW375579, AA425265, H14868,
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HWBDP39	270	1223498	1 - 3163	15 - 3177	AC009233, and AR038904. AI830320, AI650699, AA425859, AL135164, AW407213, R93643, T08247, AA903976, AI339150, AA393578, D81801, AA069108, H05354, T78715, H17603, AW375579, AA425265, H14868, AA353380, AA382228, T31679, H28195, AI452888, H60758, AW341054, H21724, R44576, H05304, R19312, H28238, AA344135, W24078, R60163, AA397778, AA804197, R47192, R47367, T70745, AA350456, N72648, W03235, N56575, N87382, R72018, R07516, R46310,
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HPMLD30	287	1226192	1 - 3475	15 - 3489	AA653812, S78429, E03539, and X01966.
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HKIXB03	291	1129055	1 - 631	15 - 645	AA534863, AI807346, AI807337,
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HFRBW72	338	916944	1 - 666	15 - 680	AI526017, AC020876, AC020876,
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HSLJX23	339	1105530	1 - 483	15 - 497	
HSLJX90	340	1105297	1 - 424	15 - 438	
HAUAI67	341	1102604	1 - 924	15 - 938	AI990409, AI056896, AI200949,

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HSVCH37	346	558195	1 - 236	15 - 250	AB001632, I58533, I58528, AB015656,
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HTOCG37	347	708888	1 - 339	15 - 353	AA190710, and AF079529.
HBXAW47	348	771624	1 - 668	15 - 682	AA028190, AI953574, AI738595,
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HE8CG83	352	933609	1 - 1114	15 - 1128	R98819, H48501, AI431664, H48668,
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HOGCW55	353	953161	1 - 514	15 - 528	W25173, AA587912, AA353485,
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HHAWC08	355	957942	1 - 1870	15 - 1884	AI860000, AI984180, AI052115,
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HE8FG51	395	465267	1 - 527	15 - 541	AA393505, AI024045, AA398573,
Indoi 031	370	.0020.	1 34.	13 3,1	AA309852, and AA399121.
HTPDU31	396	503077	1 - 352	15 - 366	R20319, AA322955, and Z83844.
HMUBV12	397	549423	1 - 352	15 - 366	AA085250, AF040710, AF036035,
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HKAAZ66	401	592105	1 - 658	15 - 672	AL119973, AI751411, AA375863,
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HMICO24	406	677036	1 - 337	15 - 351	AA913929, AF123320, AP000350,
015					AC010925, AC010925, and AC010925.
HSIAC23	407	679292	1 - 446	15 - 460	H14396, R19960, F11251, R12516,
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HSLFL74	408	685897	1 - 1332	15 - 1346	pur ujugan sama a ukuma pasa a
НЅОЛО53	409	698259	1 - 611	15 - 625	P00050 2758410 P00050 114001000
HCEBF33	410	702955	1 - 897	15 - 911	R20250, N57610, R20853, and AA321932.
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l						D80038, D80366, C14429, D50979,
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HMWDI41	437	854051	1 - 634	15 - 648	AA985190, AA283143, Z19146,
A A A A A A A A A A A A A A A A A A A	1		1		AA371530, and AA371532.
HFVHU73	438	856165	1 - 359	15 - 373	1113,1330, und 1213,1332.
HMUBJ80	439	858497	1 - 592	15 - 606	AA286791, AI671208, AC004466,
LIMOR190	439	03049/	1 - 392	13-000	AL117455, AF207749, AF207748,
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HE9ML74	440	859297	1 - 2102	15 - 2116	AI141536, AA716179, AI638212,
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HRADE27	444	867195	1 - 535	15 - 549	AA809467, N50856, and D87455.
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TIECOPOZ	110	071060	1 414	15 400	AA033340.
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HAOAE45	450	876157	1 - 460	15 - 474	AA214170, AA313857, and Z98048.
HELBA42	451	878549	1 - 1000	15 - 1014	R54355, AA311209, AA357633,
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LIETTIDEO	151	879640	1 - 2091	15 - 2105	
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HGBCU40	455	880328	1 - 612	15 - 626	AA160076, and AA358669.
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HCROF75	460	889436	1 - 605	15 - 619	H50475, AW365306, H19076, AW005455,
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HDPAP15	461	909703	1 - 2166	15 - 2180	AW363530, AA769683, AW297818,
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HTGDH34	462	896571	1 - 465	15 - 479	AA481051, AI094999, AL038641, N49766,
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-					AI888538, AW080451, F33042,
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}	[*			AW089362, AA004371, T54181,
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HSDK189	551	786812	1 - 509	15 - 523	AC012620.
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HLDQU68	553	825558	1 - 452	15 - 466	AI927829, AI823488, AI767760,
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HMUAS41	554	827510	1 - 373	15 - 387	AA386164, AA059359, AA586923, and
IIIVIOA541	334	02/310	1-3/3	13-36/	D42047.
HTXOH20	555	837509	1 - 636	15 - 650	AA429144, W27414, T65501, R13762,
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HMAEM27	565	870252	1 - 810	15 - 824	AI123252, N48389, AA253248, AI553735,
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HLDOO20	597	910371	1 - 145	15 - 159	AI432644, AI623302, AI432653,
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HSLEP67	598	963505	1 - 440	15 - 454	AL130842, AL030106, and E01014.
	599	964463	1 - 1341	15 - 1355	D57106 and C16200
HSLEP94					D57186, and C16289.
HSENS89	600	964527	1 - 1039	15 - 1053	W52878, R10513, R17310, AL117452, and
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HNTAF77	601	966190	1 - 505	15 - 519	AI436205, AI280203, AA479713,
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HBIOV48	602	967566	1 - 523	15 - 537	T87573, and AL049709.
HBGMN45	603	967744	1 - 696	15 - 710	AC022123.
HBXCE20	604	970889	1 - 880	15 - 894	
HSLJU88	605	780811	1 - 527	15 - 541	
HKGDQ60	606	863330	1 - 756	15 - 770	AI929390, F00197, Z24927, AA019708,
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HSDKF67	607	933059	1 - 456	15 - 470	AC020885.
HSLFT94	608	603023	1 - 416	15 - 430	AC020003.
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HTJMD06	אָטס	83/003	1 - 482	13 - 490	AB002346, AF039945, AF041860,
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HNTBH68	610	851274	1 - 569	15 - 583	AW157233, Z43649, C15376, and R20382.
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HAABH11	612	965473	1 - 685	15 - 699	AA418447, H83353, H85525, and
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			1		AA053488, AA143590, AA115821,
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HPMAM67	627	915879	1 - 63	15 - 77	AA369592.
HBXFI75	628	566766	1 - 1283	15 - 1297	D79572, AA127422, AA127356, D62400,
I I I I I I I I I I I I I I I I I I I	020	300700	1 - 1205	10 1291	D79542, AI526056, D79553, and
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			16		AI343648, AA181775, AI435224, AI343775, AA099397, T16045, AI799105, AI752703, W33196, AA351180, AI961827, T33784, AI915117, AW269113, AA534922, T07513, AA640598, AW006679, AI690741, AI360483, AI493458, AA045885, AA806918, AI538745, AA626552, AI222003, AI027680, AW249906, AI081731, AI559452, AI541544, AW015343, AI308205, AA351396, AI749264, AI880176, AA813628, AI272365, AA666167, T08178, AI832597, C03506, AI961596, AW242908, R21336, AW383486, T34813, F05305, Z38330, AI860100, T30202, AA984906, AI669246, AI783574, AA132628, AA679701, T09495, AI804284, AA548605, AI904542, T33720, AI003186, AI689628, AI422626,
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			16 		AI343648, AA181775, AI435224, AI343775, AA099397, T16045, AI799105, AI752703, W33196, AA351180, AI961827, T33784, AI915117, AW269113, AA534922, T07513, AA640598, AW006679, AI690741, AI360483, AI493458, AA045885, AA806918, AI538745, AA626552, AI222003, AI027680, AW249906, AI081731, AI559452, AI541544, AW015343, AI308205, AA351396, AI749264, AI880176, AA813628, AI272365, AA666167, T08178, AI832597, C03506, AI961596, AW242908, R21336, AW383486, T34813, F05305, Z38330, AI860100, T30202, AA984906, AI669246, AI783574, AA132628, AA679701, T09495, AI804284, AA548605, AI904542, T33720, AI003186, AI689628, AI422626,
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HSYDR42	646	933545	1 - 936	15 - 950	AI343648, AA181775, AI435224, AI343775, AA099397, T16045, AI799105, AI752703, W33196, AA351180, AI961827, T33784, AI915117, AW269113, AA534922, T07513, AA640598, AW006679, AI690741, AI360483, AI493458, AA045885, AA806918, AI538745, AA626552, AI222003, AI027680, AW249906, AI081731, AI559452, AI541544, AW015343, AI308205, AA351396, AI749264, AI880176, AA813628, AI272365, AA666167, T08178, AI832597, C03506, AI961596, AW242908, R21336, AW383486, T34813, F05305, Z38330, AI860100, T30202, AA984906, AI669246, AI783574, AA132628, AA679701, T09495, AI804284, AA548605, AI904542, T33720, AI003186, AI689628, AI422626, AW198201, AA343212, T33820, AW237961, AI364459, N83716, AI204432, AI609608, AA766618, AA354129, AF195417, and AL137455.
HSYDB42	646	933545	1 - 936	15 - 950	AI343648, AA181775, AI435224, AI343775, AA099397, T16045, AI799105, AI752703, W33196, AA351180, AI961827, T33784, AI915117, AW269113, AA534922, T07513, AA640598, AW006679, AI690741, AI360483, AI493458, AA045885, AA806918, AI538745, AA626552, AI222003, AI027680, AW249906, AI081731, AI559452, AI541544, AW015343, AI308205, AA351396, AI749264, AI880176, AA813628, AI272365, AA666167, T08178, AI832597, C03506, AI961596, AW242908, R21336, AW383486, T34813, F05305, Z38330, AI860100, T30202, AA984906, AI669246, AI783574, AA132628, AA679701, T09495, AI804284, AA548605, AI904542, T33720, AI003186, AI689628, AI422626, AW198201, AA343212, T33820, AW237961, AI364459, N83716, AI204432, AI609608, AA766618, AA354129, AF195417, and AL137455. AI719346, AA310771, AA233019,
HSYDB42	646	933545	1 - 936	15 - 950	AI343648, AA181775, AI435224, AI343775, AA099397, T16045, AI799105, AI752703, W33196, AA351180, AI961827, T33784, AI915117, AW269113, AA534922, T07513, AA640598, AW006679, AI690741, AI360483, AI493458, AA045885, AA806918, AI538745, AA626552, AI222003, AI027680, AW249906, AI081731, AI559452, AI541544, AW015343, AI308205, AA351396, AI749264, AI880176, AA813628, AI272365, AA666167, T08178, AI832597, C03506, AI961596, AW242908, R21336, AW383486, T34813, F05305, Z38330, AI860100, T30202, AA984906, AI669246, AI783574, AA132628, AA679701, T09495, AI804284, AA548605, AI904542, T33720, AI003186, AI689628, AI422626, AW198201, AA343212, T33820, AW237961, AI364459, N83716, AI204432, AI609608, AA766618, AA354129, AF195417, and AL137455.

					AA830191, AW300947, AI804787,
	12		· ·		AW206297, AA864496, AA485340,
1	1	l.	Ì		AA411764, AA831521, T47212, R10201,
		ŀ			AA853167, AA810264, AA806768,
		· ·			T47213, AW206611, AA601948, R23156,
		:		i	AA483462, AI621256, AW382583,
	ļ				T91085, AW014353, AW069654,
	l				AW362889, AW051869, R10100,
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				1	AL022318, AL022318, and AL022318.
TITTATETO	(47)	1102050	1 1226	15 1240	AA313892, AA526825, N93427,
HTXKJ79	647	1193059	1 - 1335	15 - 1349	
130	1				AA130211, AA541790, AA513784,
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	ļ		(AI565802, AI189800, AA133994,
į.	1			ļ	AA857480, N92521, AI979046,
	ŀ			ł	AW081990, AA479643, AA401099,
	ĺ				AA100939, AW131162, AI735040,
*	ļ			1	AA555043, AW072841, AA308103,
,	1	İ	ļ		N35914, AI333478, AA847298, AA477100,
	1	[AI336156, AA088505, AI160310,
1	1	ļ		1	AI494501, AI038076, AI672758,
	1				AW405000, AA173369, AI333476,
1	İ		İ		AA401012, AI369296, AI126897,
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]			AA694117, AA088451, AI749360,
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				Ì	AA287074, F26081, N26049, D20716,
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	1	1	ł	1	AA721698, AA284531, AW273893,
9	1				N53859, AI469668, AA502645, AI033719,
1					AI420366, F20597, H98101, AI189806,
	l			1.	N34652, AI636826, AA064910, AA917751,
		ļ			R98575, AA575937, AA421366,
	1	1	[{	AA935737, W72160, AI186260, N32788,
	İ				AA477331, AA158600, N31599,
	1	1	1		AA401100, AI193952, W42983, AI340972,
Ì			ĺ	i	C03853, AA479750, AA564885, AI034254,
					AI358074, AA992042, AA491987, H70695,
· ·				Ì	N20951, AI128894, AA654495, R80833,
1	1		1		AI333433, AA576225, AA421285,
1				j	AA065189, W02947, AA782455, R92244,
	1	1	1		AI766437, AA582561, AA782733,
1			1		AI784600, AA158981, AA035404,
1	1	1	1		AA158621, W00676, H82450, AW191872,
1	1	1	1		AI301326, AI749232, AA484185, H23877,
1			Į.		AA890312, AI359315, AA112059, N73359,
1	1	1 -	}	-	AA669504, R98056, AI073522, AI129443,
1	1	1	l		N27821, AI689201, AA322157, T29641,
	1	1	1	1	H78773, W74603, AA197117, AW004770,
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1	1	1	1		AI581927, AA010122, AA035403,
1		1	1	J	AA149110, H47164, R98576, AA664772,
	ļ	1	1		AA187062, N49759, R98296, R93304,
1	1	1	1		AW273793, W42984, AW299631, H78692,
		1	1		AA340920, H47080, AA375173,
1	1	1	1		AA121112, N88492, H91239, H65548,
		1	1		F33675, N91473, F36132, AA065188,
		I	1		AA010121, H91185, AA629726, N69009,
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					AA380545, AA309814, W04169,
	Í				AA664655, AA340603, AA635766,
					AA135830, N67959, AI718859, W38968,
·	0				R19262, F18056, R11548, AA341429,
	Í			9	AA552258, N87271, N87225, N86420,
	1			!	R11537, N70131, AA916347, AA594049,
	- 1	*			AA778920, AA845634, N83545, AI921962,
	•]				H23878, N43981, AA886820, AA682552,
					AA089586, AA400947, AA771861,
		. '			W21469, AA774487, AI041445,
	1	•	-	•	AA448241, T25854, R19273, N47052,
					AA742719, AA879068, N86264, U09813,
		,			and U51167.
HUSGQ19	648	1165320	1 - 1554	15 - 1568	AI866480, AI983534, AL040482,
110000(19	770	ļ103320	1337		AI333019, AI274967, AW303755,
- 1					AA206575, N31555, AW452025,
					AA496999, AA648602, N39479,
·					AA648068, T68311, H95917, AA161418,
					T51330, AA630664, F37190, AA403243,
		,			AA830558, AA489584, AA262117,
					N98795, AA186599, F28863, N57116,
					AA595742, AA308992, and AC007450.
HUSZS75	649	1193982	1 - 505	15 - 519	AI598182, AI494294, AI590288,
11002075	0.5	1193902	1 303	1000	AI084196, AW194590, AI087964,
					AI198967, AI199039, AI741329,
			l	}	AI869985, AI244677, AI418883,
		•	· ·	, ·	AI089003, AI380816, AW194721,
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			1	· ·	AA810856, AI584146, W77788, AI474979,
*		*			AA994638, AA314116, AW364658,
	·	•	ļ.		AW364613, and AC004531.
HWBDR25	650	1174365	1 - 1245	15 - 1259	AI214167, T06837, AL041965, T48053,
	000				AA706944, AA706964, H47902,
· igi		•	i		AF083255, and AF147429.
HBGSS51	651	954855	1 - 328	15 - 342	AI820875, AW043723, AI733833,
11200031	33.		1 - 525		AI346364, AI367911, AI339790,
				,	AI304423, AI281355, AW002302,
			1		A1290437, A1222852, A1222849,
			1	1	AI284996, AI262350, AA377487,
			[1	AI262351, AI304520, AI337436,
			1		AC012615, AC012615, and AC012615.

TABLE 4

	5	m.		T C Prv	n.	77
Code	Description	Tissue	Organ	Cell Line	Disease .	Vector
AR022	a_Heart	a_Heart				
AR023	a Liver	a Liver				
AR024	a_mammary gland	a mammary gland		-		
AR025	a Prostate	a Prostate				
AR026	a small intestine	a small intestine				
AR027	a Stomach	a Stomach				
AR028	Blood B cells	Blood B cells				
AR029	Blood B cells activated	Blood B cells				
ALCOZS	Blood B cells activated	activated				
AR030	Blood B cells resting	Blood B cells				
70000	Diodd B cons resting	resting				
AR031	Blood T cells activated	Blood T cells	1.0	<u> </u>		
111031	Dioda i dono adiiyanda	activated			l .	
AR032	Blood T cells resting	Blood T cells resting				
AR033	brain	brain				
AR034	breast	breast				
AR035	breast cancer	breast cancer				
AR036	Cell Line CAOV3	Cell Line CAOV3		-		
AR037	cell line PA-1	cell line PA-1			<u> </u>	
AR038	cell line transformed	cell line transformed				
						·
AR039	colon	colon		 		<u> </u>
AR040	colon (9808co65R)	colon (9808co65R)				ļ
AR041	colon (9809co15)	colon (9809co15)	· · · · · · · · · · · · · · · · · · ·			ļ
AR042	colon cancer	colon cancer				
AR043	colon cancer (9808co64R)	colon cancer				
4 7044	colon cancer 9809co14	(9808co64R)			·	
AR044	colon cancer 9809co14	colon cancer	Į.			,
A D 045		9809co14		-	 	· · · · · · · · · · · · · · · · · · ·
AR045	corn clone 5	corn clone 5	ļ			
AR046	corn clone 6 corn clone2	corn clone 6				
AR047		corn clone2				
AR048	corn clone3	corn clone3				
AR049	Corn Clone4	Corn Clone4				
AR050	Donor II B Cells 24hrs	Donor II B Cells	Į			
ADOST	D	24hrs				
AR051	Donor II B Cells 72hrs	Donor II B Cells				
ADOCO	Dones II D. Calla 241	72hrs	 		 	-
AR052	Donor II B-Cells 24 hrs.	Donor II B-Cells 24			l	
AR053	Donor II D. Calla 701	hrs. Donor II B-Cells			 	
AKUSS	Donor II B-Cells 72hrs		J]
AR054	Donor II Resting B Cells	72hrs		-	 	
AKU34	DUNOT II Kesting B Cells	Donor II Resting B				
ADOSE	Land	Cells	 			
AR055	Heart	Heart				
AR056	Human Lung (clonetech)	Human Lung		_	l	
ADOCT	Ту	(clonetech)	 		 	
AR057	Human Mammary	Human Mammary	l	1	9.	
ADOCO	(clontech)	(clontech)	 			
AR058	Human Thymus	Human Thymus	1			
ABATA	(clonetech)	(clonetech)				}
AR059	Jurkat (unstimulated)	Jurkat			1	
ABOSS	7:1	(unstimulated)	- 1			
AR060	Kidney	Kidney			<u> </u>	
AR061	Liver	Liver	 	- 	ļ	
AR062	Liver (Clontech)	Liver (Clontech)				ļ
AR063	Lymphocytes chronic	Lymphocytes	L			1

	I I	alumnia lumnika ai ai				
}	lymphocytic leukaemia	chronic lymphocytic leukaemia	A	\		
AR064	Lymphocytes diffuse large	Lymphocytes			44.0.1	
AK004	B cell lymphoma	diffuse large B cell				
	B cell tympholia	lymphoma				
AR065	Lymphocytes follicular	Lymphocytes	- 4		,	,
AKOOJ	lymphoma	follicular lymphoma				
AR066	normal breast	normal breast				
AR067	Normal Ovarian	Normal Ovarian				
ALCOOT	(4004901)	(4004901)			-	,
AR068	Normal Ovary 9508G045	Normal Ovary		 -		
AKOOO	Normal Oval y 33080043	9508G045				
AR069	Normal Ovary 9701G208	Normal Ovary				
MOO	Itomiai Otary 57010200	9701G208				- X-
AR070	Normal Ovary 9806G005	Normal Ovary			-,	
Acoro	Normal Oval y 380000003	9806G005				
AR071	Ovarian Cancer	Ovarian Cancer				
AR072	Ovarian Cancer	Ovarian Cancer		-		· · · · · ·
10072	(9702G001)	(9702G001)				
AR073	Ovarian Cancer	Ovarian Cancer				
	(9707G029)	(9707G029)				
AR074	Ovarian Cancer	Ovarian Cancer				
	(9804G011)	(9804G011)				
AR075	Ovarian Cancer	Ovarian Cancer				
	(9806G019)	(9806G019)				
AR076	Ovarian Cancer	Ovarian Cancer			l	
	(9807G017)	(9807G017)		1		
AR077	Ovarian Cancer	Ovarian Cancer				
	(9809G001)	(9809G001)	, i			
AR078	ovarian cancer 15799	ovarian cancer				
	1	15799				
AR079	Ovarian Cancer	Ovarian Cancer		·		
	17717AID	17717AID				
AR080	Ovarian Cancer	Ovarian Cancer		.,		
	4004664B1	4004664B1				<u> </u>
AR081	Ovarian Cancer	Ovarian Cancer		•		
	4005315A1	4005315A1				
AR082	ovarian cancer 94127303	ovarian cancer				
		94127303				
AR083	Ovarian Cancer 96069304	Ovarian Cancer				
		96069304	- 1			
AR084	Ovarian Cancer 9707G029	Ovarian Cancer		į		
12000		9707G029				
AR085	Ovarian Cancer 9807G045	Ovarian Cancer				
12006		9807G045				
AR086	ovarian cancer 9809G001	ovarian cancer				
AD007	Continue Grand	9809G001	<u></u>	<u> </u>	<u> </u>	
AR087	Ovarian Cancer	Ovarian Cancer				
ADOO	9905C032RC	9905C032RC		<u> </u>		
AR088	Ovarian cancer 9907 C00	Ovarian cancer 9907		ļ		
AR089	3rd Prostate	C00 3rd				
AR089 AR090		Prostate (clamatoch)				<u> </u>
	Prostate (clonetech)	Prostate (clonetech)	<u>, </u>			
AR091	prostate cancer	prostate cancer		<u> </u>	·	
AR092	prostate cancer #15176	prostate cancer				,
ADOD	negatata con 25 415500	#15176		ļ		
AR093	prostate cancer #15509	prostate cancer		-		
ADOOA		#15509				
AR094	prostate cancer #15673	prostate cancer				
ADODE	Small Intertine (Classes)	#15673				
AR095	Small Intestine (Clontech)	Small Intestine (Clontech)	. 4			
L	l	(Ciontecti)	L			L

AR096	Spleen	Spleen		<u>_</u>	T	T
AR097	Thymus T cells activated	Thymus T cells	 -	 	 	
		activated			1	
AR098	Thymus T cells resting	Thymus T cells			1	
		resting				
AR099	Tonsil	Tonsil				
AR100	Tonsil geminal center	Tonsil geminal			·	
	centroblast	center centroblast				
AR101	Tonsil germinal center B	Tonsil germinal	•		1	
	cell	center B cell				
AR102	Tonsil lymph node	Tonsil lymph node				
AR103	Tonsil memory B cell	Tonsil memory B	·	1	1	İ
AR104	Whole Brain	cell Whole Brain				
AR105	Xenograft ES-2			 	 	ļ
AR106	Xenograft SW626	Xenograft ES-2 Xenograft SW626	· · · · · · · · · · · · · · · · · · ·	<u> </u>	 -	
H0002	Human Adult Heart	Human Adult Heart	Heart		 	II-: ZAD VD
H0003	Human Adult Liver	Human Adult Liver	Liver	 	 	Uni-ZAP XR Uni-ZAP XR
H0004	Human Adult Spleen	Human Adult	Spleen			Uni-ZAP XR
110004	Turnar Adam Spicer	Spleen	Spicen		Ì	UIII-ZAF AR
H0008	Whole 6 Week Old	- Spicen			 	Uni-ZAP XR
	Embryo				[Oli-ZAI XX
H0009	Human Fetal Brain				· · · · · ·	Uni-ZAP XR
H0011	Human Fetal Kidney	Human Fetal Kidney	Kidney		 	Uni-ZAP XR
H0012	Human Fetal Kidney	Human Fetal Kidney	Kidney	,	1	Uni-ZAP XR
H0013	Human 8 Week Whole	Human 8 Week Old	Embryo			Uni-ZAP XR
	Embryo	Embryo			l	
H0014	Human Gall Bladder	Human Gall Bladder	Gall Bladder	·		Uni-ZAP XR
H0015 ·	Human Gall Bladder, fraction II	Human Gall Bladder	Gall Bladder			Uni-ZAP XR
H0018	Human Greater Omentum,	Human Greater	peritoneum		· · · · · ·	Uni-ZAP XR
	fll remake	Omentum	portroneum			OIII-ZAL ZAC
H0019	Human Fetal Heart	Human Fetal Heart	Heart			pBluescript
H0020	Human Hippocampus	Human	Brain			Uni-ZAP XR
		Hippocampus				
H0022	Jurkat Cells	Jurkat T-Cell Line				Lambda
						ZAP II
H0023 ·	Human Fetal Lung					Uni-ZAP XR
H0024	Human Fetal Lung III	Human Fetal Lung	Lung			Uni-ZAP XR
H0026	Namalwa Cells	Namalwa B-Cell	į		·	Lambda
		Line, EBV		1	ļ	ZAP II
H0027	Human Overion Conses	- immortalized			1:	11 : 6 1 5 15
H0027	Human Ovarian Cancer	II Old Overs	0		disease	Uni-ZAP XR
H0028	Human Old Ovary Human Placenta	Human Old Ovary	Ovary	<u> </u>		pBluescript
H0030	Human Placenta	Human Placenta	Disconts			Uni-ZAP XR
H0032	Human Prostate	Human Prostate	Placenta Prostate	<u> </u>		Uni-ZAP XR Uni-ZAP XR
H0033	Human Pituitary	Human Pituitary	Fiustate			
H0035	Human Salivary Gland	Human Salivary	Salivary			Uni-ZAP XR Uni-ZAP XR
110033	Transmi Canvary Challe	Gland	gland] -	1	OIII-ZAF AR
H0036	Human Adult Small	Human Adult Small	Small Int.			Uni-ZAP XR
	Intestine	Intestine				
H0037	Human Adult Small Intestine	Human Adult Small Intestine	Small Int.]	pBluescript
H0038	Human Testes	Human Testes	Testis		<u> </u>	Uni-ZAP XR
H0039	Human Pancreas Turnor	Human Pancreas	Pancreas		disease	Uni-ZAP XR
1700.40	Human Testes Tumor	Tumor				l
H0040	Human Tactor Tumor	Human Testes	Testis		disease	Uni-ZAP XR
i	Tuman 1606 Tumor					
H0041	Human Fetal Bone	Tumor Human Fetal Bone	Bone			Uni-ZAP XR
H0041 H0042		Tumor	Bone Lung			Uni-ZAP XR Uni-ZAP XR

H0046	Human Endometrial	Human Endometrial	Uterus		disease	Uni-ZAP XR
	Tumor	Tumor		<u> </u>		
H0047	Human Fetal Liver	Human Fetal Liver	Liver	<u> </u>		Uni-ZAP XR
H0049	Human Fetal Kidney	Human Fetal Kidney	Kidney	 		Uni-ZAP XR
H0050	Human Fetal Heart	Human Fetal Heart	Heart			Uni-ZAP XR
H0051	Human Hippocampus	Human Hippocampus	Brain			Uni-ZAP XR
H0052	Human Cerebellum	Human Cerebellum	Brain	l		Uni-ZAP XR
H0056	Human Umbilical Vein,	Human Umbilical	Umbilical	 		Uni-ZAP XR
110050	Endo. remake	Vein Endothelial	vein	į		· ·
	Zhao. remaato	Cells	vem	1	į	}
H0057	Human Fetal Spleen	56.15		-		Uni-ZAP XR
H0058	Human Thymus Tumor	Human Thymus	Thymus	 	disease	Lambda
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tumor	111/11143		Ciocase	ZAP II
H0059	Human Uterine Cancer	Human Uterine	Uterus	 	disease	Lambda
	100	Cancer		1		ZAP II
H0060	Human Macrophage	Human Macrophage	Blood	Cell Line		pBluescript
H0061	Human Macrophage	Human Macrophage	Blood	Cell Line		pBluescript
H0063	Human Thymus	Human Thymus	Thymus	- COLL EAST		Uni-ZAP XR
H0068	Human Skin Tumor	Human Skin Tumor	Skin	}	disease	Uni-ZAP XR
H0069	Human Activated T-Cells	Activated T-Cells	Blood	Cell Line	discase	Uni-ZAP XR
H0070	Human Pancreas	Human Pancreas	Pancreas	CCH Line		Uni-ZAP XR
H0071	Hùman Infant Adrenal	Human Infant	Adrenal	 		Uni-ZAP XR
110071	Gland	Adrenal Gland	gland	j		UIII-ZAF AK
H0079	Human Whole 7 Week	Human Whole 7	Embryo	 		Uni-ZAP XR
HUU19	Old Embryo (II)	Week Old Embryo	Embryo		1	UIII-ZAP AK
H0080	Human Whole 6 Week	Human Whole Six	Embryo	-		Lambda
110000	Old Embryo (II)	Week Old Embryo	Billoryo			ZAP II
H0081	Human Fetal Epithelium	Human Fetal Skin	Skin			Uni-ZAP XR
110001	(Skin)	Human Petar Skill	SKIII	,		UIII-ZAP AR
H0083	HUMAN JURKAT	Jurkat Cells				Uni-ZAP XR
•	MEMBRANE BOUND					
<u> </u>	POLYSOMES					
H0085	Human Colon	Human Colon				Lambda ZAP II
H0086	Human epithelioid	Epithelioid	Sk Muscle	 -	disease	Uni-ZAP XR
220000	sarcoma	Sarcoma, muscle	DK Masolo	ł	Giscaso	Om End Air
H0087	Human Thymus	Human Thymus		 		pBluescript
H0090	Human T-Cell Lymphoma	T-Cell Lymphoma	T-Cell	 	disease	Uni-ZAP XR
H0096	Human Parotid Cancer	Human Parotid	Parotid	 	disease	Lambda
110070	Transact at one confoct	Cancer	1 aqona	ł	discase	ZAP II
H0097	Human Adult Heart,	Human Adult Heart	Heart	 	···	pBluescript
110077	subtracted	Hullan Addit Heart	Ticati .	1		poidescript
H0098	Human Adult Liver,	Human Adult Liver	Liver	 -		Uni-ZAP XR
110070	subtracted		LIVE	ì		OIII-ZAI AK
H0099	Human Lung Cancer,	Human Lung Cancer	Lung	 		pBluescript
110077	subtracted	Truman Lung Canca	Lung			politicscript
H0100	Human Whole Six Week	Human Whole Six	Embryo	 		Uni-ZAP XR
110100	Old Embryo	Week Old Embryo	Elliotyo			UIII-ZAF AR
H0101	Human 7 Weeks Old	Human Whole 7	Embryo	 		Lambda
110101	Embryo, subtracted	Week Old Embryo	Embryo	1	e.	ZAP II
H0102	Human Whole 6 Week	Human Whole Six	Embryo	ļ		pBluescript
110102	Old Embryo (II), subt	Week Old Embryo	Ellibryo			poluescript
H0105	Human Fetal Heart,	Human Fetal Heart	Heart			n Dly agarint
110103	subtracted	TIUMAM PERM MERIT	пеап			pBluescript
H0107	Human Infant Adrenal	Human Infant	Adrenal	 		nDluggerint
וטוטת	Gland, subtracted					pBluescript
LINION		Adrenal Gland	gland	Coll Li		-D1.
H0109	Human Macrophage, subtracted	Macrophage	Blood	Cell Line		pBluescript
H0111	Human Placenta,	Human Placenta	Placenta	 		pBluescript
110111	subtracted	munian Piacenta	г іасепта			politescript
H0116	Human Thymus Tumor,	Human Thymus	Thimsia	 		pBluescript
110110	Adding thymus lumor,	Tunan Inymus	Thymus	t	L	horaceobt

	subtracted	Tumor				
H0119	Human Pediatric Kidney	Human Pediatric Kidney	Kidney		\	Uni-ZAP XR
H0121	Human Cornea, subtracted	Human Comea	eye			Uni-ZAP XR
H0122	Human Adult Skeletal Muscle	Human Skeletal Muscle	Sk Muscle			Uni-ZAP XR
H0123	Human Fetal Dura Mater	Human Fetal Dura Mater	Brain			Uni-ZAP XR
H0124	Human Rhabdomyosarcoma	Human Rhabdomyosarcoma	Sk Muscle		disease	Uni-ZAP XR
H0125	Cem cells cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0129	Jurkat cells, thiouridine activated, fract II	Jurkat Cells				Uni-ZAP XR
H0130	LNCAP untreated	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
H0131	LNCAP + 0.3nM R1881	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
H0132	LNCAP + 30nM R1881	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
H0134	Raji Cells, cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0135	Human Synovial Sarcoma	Human Synovial Sarcoma	Synovium		_	Uni-ZAP XR
H0136	Supt Cells, cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0140	Activated T-Cells, 8 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0141	Activated T-Cells, 12 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0144 .	Nine Week Old Early Stage Human	9 Wk Old Early Stage Human	Embryo			Uni-ZAP XR
H0149	7 Week Old Early Stage Human, subtracted	Human Whole 7 Week Old Embryo	Embryo			Uni-ZAP XR
H0150 ·	Human Epididymus	Epididymis	Testis			Uni-ZAP XR
H0154	Human Fibrosarcoma	Human Skin Fibrosarcoma	Skin		disease	Uni-ZAP XR
H0156	Human Adrenal Gland Tumor	Human Adrenal Gland Tumor	Adrenal Gland	-	disease	Uni-ZAP XR
H0159	Activated T-Cells, 8 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0161	Activated T-Cells, 24 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0163	Human Synovium	Human Synovium	Synovium			Uni-ZAP XR
H0164	Human Trachea Tumor	Human Trachea Tumor	Trachea		disease	Uni-ZAP XR
H0165	Human Prostate Cancer, Stage B2	Human Prostate Cancer, stage B2	Prostate		disease	Uni-ZAP XR
H0166	Human Prostate Cancer, Stage B2 fraction	Human Prostate Cancer, stage B2	Prostate		disease	Uni-ZAP XR
H0168	Human Prostate Cancer, Stage C	Human Prostate Cancer, stage C	Prostate		disease	Uni-ZAP XR
H0169	Human Prostate Cancer, Stage C fraction	Human Prostate Cancer, stage C	Prostate		disease	Uni-ZAP XR
H0170	12 Week Old Early Stage Human	Twelve Week Old Early Stage Human	Embryo			Uni-ZAP XR
H0171	12 Week Old Early Stage Human, II	Twelve Week Old Early Stage Human	Embryo			Uni-ZAP XR
H0172	Human Fetal Brain, random primed	Human Fetal Brain	Brain			Lambda ZAP II
H0173	Human Cardiomyopathy, RNA remake	Human Cardiomyopathy	Heart		disease	Uni-ZAP XR
H0175	H. Adult Spleen, ziplox					pSport1
H0177	CAMA1Ee Cell Line	CAMA1Ee Cell	Breast	Cell Line		Uni-ZAP XR

		7:				
H0178	Human Fetal Brain	Line Human Fetal Brain	Brain	 		Uni-ZAP XR
H0178	Human Neutrophil	Human Neutrophil	Blood	Cell Line	· ·	Uni-ZAP XR
H0179	Human Primary Breast	Human Primary	Breast	Cell Line	disease	Uni-ZAP XR
	Cancer	Breast Cancer				
H0182	Human Primary Breast Cancer	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0184.	Human Colon Cancer,	Human Colon	Liver		disease	Lambda
	metasticized to live	Cancer, metasticized to liver				ZAP II
H0186	Activated T-Cell	T-Cells	Blood	Cell Line		Lambda ZAP II
H0187	Resting T-Cell	T-Cells	Blood	Cell Line		Lambda ZAP II
H0188	Human Normal Breast	Human Normal Breast	Breast			Uni-ZAP XR
H0189	Human Resting	Human	Blood	Cell Line		Uni-ZAP XR
	Macrophage	Macrophage/Monoc ytes				
H0190	Human Activated	Human	Blood	Cell Line		Uni-ZAP XR
•	Macrophage (LPS)	Macrophage/Monoc ytes				
H0191	Human Activated	Human	Blood	Cell Line		Uni-ZAP XR
	Macrophage (LPS), thiour	Macrophage/Monoc ytes				
H0192	Cem Cells, cyclohexamide	Cyclohexamide	Blood	Cell Line		Uni-ZAP XR
	treated, subtra	Treated Cem, Jurkat,		,		
H0194	Human Cerebellum,	Raji, and Supt Human Cerebellum	Brain			mDluogarint
П0194	subtracted ·		Brain			pBluescript
H0196	Human Cardiomyopathy, subtracted	Human Cardiomyopathy	Heart			Uni-ZAP XR
H0197	Human Fetal Liver, subtracted	Human Fetal Liver	Liver			Uni-ZAP XR
H0199	Human Fetal Liver, subtracted, neg clone	Human Fetal Liver	Liver			Uni-ZAP XR
H0200	Human Greater Omentum, fract II remake,	Human Greater Omentum	peritoneum			Uni-ZAP XR
H0201	Human Hippocampus, subtracted	Human Hippocampus	Brain			pBluescript
H0204	Human Colon Cancer, subtracted	Human Colon Cancer	Colon			pBluescript
H0207	LNCAP, differential expression	LNCAP Cell Line	Prostate	Cell Line	_	pBluescript
H0208	Early Stage Human Lung, subtracted	Human Fetal Lung	Lung			pBluescript
H0212	Human Prostate, subtracted	Human Prostate	Prostate		<u>"</u>	pBluescript
H0213 [.]	Human Pituitary, subtracted	Human Pituitary				Uni-ZAP XR
H0214	Raji cells, cyclohexamide treated, subtracted	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		pBluescript
H0216	Supt cells, cyclohexamide treated, subtracted	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line	···	pBluescript
H0220	Activated T-Cells, 4 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0221	Activated T-Cells, 4 hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0224	Activated T-Cells, 12 hrs, subtracted	Activated T-Cells	Blood	Cell Line	7	Uni-ZAP XR
H0229	Early Stage Human Brain,	Early Stage Human	Brain			Lambda

	random primed	Brain				ZAPII
H0230	Human Cardiomyopathy,	Human	Heart		disease	Uni-ZAP XR
	diff exp	Cardiomyopathy				
H0231	Human Colon, subtraction	Human Colon				pBluescript
H0232	Human Colon, differential expression	Human Colon				pBluescript
H0234	human colon cancer,	Human Colon	Liver			pBluescript
	metastatic to liver, differentially expressed	Cancer, metasticized to liver				
H0239	Human Kidney Tumor	Human Kidney Tumor	Kidney		disease	Uni-ZAP XR
H0240	C7MCF7 cell line,	C7MCF7 Cell Line,	Breast	Cell Line		Uni-ZAP XR
	estrogen treated, Differential	estrogen treated				
H0241	C7MCF7 cell line,	C7MCF7 Cell Line,	Breast	Cell Line		Uni-ZAP XR
	estrogen treated, subtraction	estrogen treated				
H0242	Human Fetal Heart,	Human Fetal Heart	Heart			pBluescript
	Differential (Fetal- Specific)			6		
H0244	Human 8 Week Whole Embryo, subtracted	Human 8 Week Old Embryo	Embryo		<u>. —-</u> -	Uni-ZAP XR
H0245	Human 8 Week Whole Embryo, differential	Human 8 Week Old Embryo	Embryo	-		Uni-ZAP XR
H0246	Human Fetal Liver- Enzyme subtraction	Human Fetal Liver	Liver			Uni-ZAP XR
H0247	Human Membrane Bound	Human Membrane	Blood	Cell Line		Uni-ZAP XR
·	Polysomes- Enzyme Subtraction	Bound Polysomes	·	:		
H0249	HE7, subtracted by	Human Whole 7	Embryo			Uni-ZAP XR
	hybridization with E7 cDNA	Week Old Embryo			<u> </u>	
H0250	Human Activated Monocytes	Human Monocytes				Uni-ZAP XR
H0251	Human Chondrosarcoma	Human Chondrosarcoma	Cartilage	·	disease	Uni-ZAP XR
H0252	Human Osteosarcoma	Human Osteosarcoma	Bone	·	disease	Uni-ZAP XR
H0253	Human adult testis, large inserts	Human Adult Testis	Testis			Uni-ZAP XR
H0254	Breast Lymph node cDNA library	Breast Lymph Node	Lymph Node			Uni-ZAP XR
H0255	breast lymph node CDNA library	Breast Lymph Node	Lymph Node			Lambda ZAP II
H0256	HL-60, unstimulated	Human HL-60 Cells, unstimulated	Blood	Cell Line		Uni-ZAP XR
H0257	HL-60, PMA 4H	HL-60 Cells, PMA stimulated 4H	Blood	Cell Line	111111	Uni-ZAP XR
H0261	H. cerebellum, Enzyme subtracted	Human Cerebellum	Brain			Uni-ZAP XR
H0263	human colon cancer	Human Colon Cancer	Colon		disease	Lambda ZAP II
H0264	human tonsils	Human Tonsil	Tonsil			Uni-ZAP XR
H0265	Activated T-Cell	T-Cells	Blood	Cell Line		Uni-ZAP XR
	(12hs)/Thiouridine labelledEco				•	·
H0266	Human Microvascular Endothelial Cells, fract. A	HMEC	Vein	Cell Line		Lambda ZAP II
H0267	Human Microvascular Endothelial Cells, fract. B	НМЕС	Vein	Cell Line		Lambda ZAP II
H0268	Human Umbilical Vein	HUVE Cells	Umbilical	Cell Line		Lambda
	Endothelial Cells, fract. A		vein			ZAP II
H0269	Human Umbilical Vein	HUVE Cells	Umbilical	Cell Line		Lambda

	Endothelial Cells, fract. B		vein			ZAP II
H0270	HPAS (human pancreas, subtracted)	Human Pancreas	Pancreas			Uni-ZAP XR
H0271	Human Neutrophil, Activated	Human Neutrophil - Activated	Blood	Cell Line		Uni-ZAP XR
H0272	HUMAN TONSILS, FRACTION 2	Human Tonsil	Tonsil			Uni-ZAP XR
H0274	Human Adult Spleen, fractionII	Human Adult Spleen	Spleen			Uni-ZAP XR
H0275	Human Infant Adrenal Gland, Subtracted	Human Infant Adrenal Gland	Adrenal gland	·		pBluescript
H0280	K562 + PMA (36 hrs)	K562 Cell line	cell line	Cell Line		ZAP Express
H0282	HBGB"s differential consolidation	Human Primary Breast Cancer	Breast			Uni-ZAP XR
H0284	Human OB MG63 control fraction I	Human Osteoblastoma MG63 cell line	Bone	Cell Line		Uni-ZAP XR
H0286	Human OB MG63 treated (10 nM E2) fraction I	Human Osteoblastoma MG63 cell line	Bone	Cell Line		Uni-ZAP XR
H0288	Human OB HOS control fraction I	Human Osteoblastoma HOS cell line	Bone	Cell Line		Uni-ZAP XR
H0290	Human OB HOS treated (1 nM E2) fraction I	Human Osteoblastoma HOS cell line	Bone	Cell Line		Uni-ZAP XR
H0292	Human OB HOS treated (10 nM E2) fraction I	Human Osteoblastoma HOS cell line	Bone	Cell Line		Uni-ZAP XR
H0293	WI 38 cells					Uni-ZAP XR
H0294	Amniotic Cells - TNF induced	Amniotic Cells - TNF induced	Placenta	Cell Line		Uni-ZAP XR
H0295	Amniotic Cells - Primary Culture	Amniotic Cells - Primary Culture	Placenta	Cell Line		Uni-ZAP XR
H0305	CD34 positive cells (Cord Blood)	CD34 Positive Cells	Cord Blood	,		ZAP Express
H0306	CD34 depleted Buffy Coat (Cord Blood)	CD34 Depleted Buffy Coat (Cord Blood)	Cord Blood			ZAP Express
H0309	Human Chronic Synovitis	Synovium, Chronic Synovitis/ Osteoarthritis	Synovium .	-	disease	Uni-ZAP XR
H0310	human caudate nucleus	Brain	Brain			Uni-ZAP XR
H0316	HUMAN STOMACH	Human Stomach	Stomach			Uni-ZAP XR
H0318	HUMAN B CELL LYMPHOMA	Human B Cell Lymphoma	Lymph Node		disease	Uni-ZAP XR
H0321	HUMAN SCHWANOMA	Schwanoma	Nerve	<u> </u>	disease	Uni-ZAP XR
H0327	human corpus colosum	Human Corpus Callosum	Brain		1.	Uni-ZAP XR
H0328	human ovarian cancer	Ovarian Cancer	Ovary	<u> </u>	disease	Uni-ZAP XR
H0329	Dermatofibrosarcoma Protuberance	Dermatofibrosarcom a Protuberans	Skin		disease	Uni-ZAP XR
H0331	Hepatocellular Tumor	Hepatocellular Tumor	Liver		disease	Lambda ZAP II
H0333	Hemangiopericytoma	Hemangiopericytom a	Blood vessel		disease	Lambda ZAP II
H0334	Kidney cancer	Kidney Cancer	Kidney	ļ	disease	Uni-ZAP XR
H0339	Duodenum	Duodenum				Uni-ZAP XR
H0340	Corpus Callosum	Corpus Collosum- 93052				Uni-ZAP XR
H0341	Bone Marrow Cell Line (RS4;11)	Bone Marrow Cell Line RS4;11	Bone Marrow	Cell Line	İ	Uni-ZAP XR

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H0343	stomach cancer (human)	Stomach Cancer - 5383A (human)	· —		disease	Uni-ZAP XR
H0344	Adipose tissue (human)	Adipose - 6825A (human)		,	*	Uni-ZAP XR
H0346	Brain-medulloblastoma	Brain	Brain		disease	Uni-ZAP XR
1103-10	Biddi moom og Loigina	(Medulloblastoma)- 9405C006R	21011			
H0349	human adult liver cDNA library	Human Adult Liver	Liver	-1- 1		pCMVSport
H0351	Glioblastoma	Glioblastoma	Brain		disease	Uni-ZAP XR
H0352	wilm"s tumor	Wilm's Tumor			disease	Uni-ZAP XR
H0354	Human Leukocytes	Human Leukocytes	Blood	Cell Line		pCMVSport 1
H0355	Human Liver	Human Liver, normal Adult				pCMVSport
H0356	Human Kidney	Human Kidney	Kidney			pCMVSport 1
H0357	H. Normalized Fetal Liver, II	Human Fetal Liver	Liver			Uni-ZAP XR
H0359	KMH2 cell line	КМН2				ZAP Express
H0361	Human rejected kidney	Human Rejected Kidney			disease	pBluescript
H0364	Human Osteoclastoma, excised	Human Osteoclastoma			disease	pBluescript
H0365	Osteoclastoma-normalized B	Human Osteoclastoma			, disease	Uni-ZAP XR
H0366	L428 cell line	L428				ZAP Express
H0369	H. Atrophic Endometrium	Atrophic Endometrium and myometrium				Uni-ZAP XR
H0370	H. Lymph node breast Cancer	Lymph node with Met. Breast Cancer			disease	Uni-ZAP XR
H0373	Human Heart	Human Adult Heart	Heart			pCMVSport
H0374	Human Brain	Human Brain				pCMVSport 1
H0375	Human Lung	Human Lung				pCMVSport
H0376	Human Spleen	Human Adult Spleen	Spleen			pCMVSport
H0379	Human Tongue, frac 1	Human Tongue				pSport1
H0380	Human Tongue, frac 2	Human Tongue				pSport1
H0381	Bone Cancer	Bone Cancer			disease	Uni-ZAP XR
H0383	Human Prostate BPH, re- excision	Human Prostate BPH	· .			Uni-ZAP XR
H0388	Human Rejected Kidney, 704 re-excision	Human Rejected Kidney			disease	pBluescript
H0390	Human Amygdala Depression, re-excision	Human Amygdala Depression			disease	pBluescript
H0391	H. Meniingima, M6	Human Meningima	brain			pSport1
H0392	H. Meningima, M1	Human Meningima	brain	1		pSport1
H0393	Fetal Liver, subtraction II	Human Fetal Liver	Liver		1	pBluescript
H0394	A-14 cell line	Redd-Sternberg cell		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ZAP Express
H0395	A1-CELL LINE	Redd-Sternberg cell			37 - · · ·	ZAP Express
H0396 H0399	L1 Cell line Human Kidney Cortex, re-	Redd-Sternberg cell Human Kidney				ZAP Express
110400	rescue	Cortex	D	 		ZAP II
H0400	Human Striatum Depression, re-rescue	Human Brain, Striatum Depression	Brain			ZAP II
H0401	Human Pituitary, subtracted V	Human Pituitary	- 151			pBluescript
H0402	CD34 depleted Buffy Coat	CD34 Depleted	Cord Blood	1		ZAP Express

					·	
	(Cord Blood), re-excision	Buffy Coat (Cord Blood)	2.			
H0403	H. Umbilical Vein Endothelial Cells, IL4	HUVE Cells	Umbilical vein	Cell Line		Uni-ZAP XR
H0404	induced H. Umbilical Vein endothelial cells,	HUVE Cells	Umbilical vein	Cell Line	· · · · · · · · · · · · · · · · · · ·	Uni-ZAP XR
H0408	uninduced Human kidney Cortex, subtracted	Human Kidney Cortex			· · · · · · · · · · · · · · · · · · ·	pBluescript
H0409	H. Striatum Depression, subtracted	Human Brain, Striatum Depression	Brain	2.00		pBluescript
H0411	H Female Bladder, Adult	Human Female Adult Bladder	Bladder			pSport1
H0412	Human umbilical vein endothelial cells, IL-4 induced	HUVE Cells	Umbilical vein	Cell Line		pSport1
H0413	Human Umbilical Vein Endothelial Cells, uninduced	HUVE Cells	Umbilical vein	Cell Line		pSport1
H0415	H. Ovarian Tumor, II, OV5232	Ovarian Tumor, OV5232	Ovary		disease	pCMVSport 2.0
H0416	Human Neutrophils, Activated, re-excision	Human Neutrophil - Activated	Blood	Cell Line		pBluescript
H0417	Human Pituitary, subtracted VIII	Human Pituitary				pBluescript
H0419	Bone Cancer, re-excision	Bone Cancer		12 21 4 2	1 -1	Uni-ZAP XR
H0421	Human Bone Marrow, re- excision	Bone Marrow				pBluescript
H0422	T-Cell PHA 16 hrs	T-Cells	Blood	Cell Line		pSport1
H0423	T-Cell PHA 24 hrs	T-Cells	Blood	Cell Line		pSport1
H0424	Human Pituitary, subt IX	Human Pituitary				pBluescript
H0427	Human Adipose	Human Adipose, left hiplipoma				pSport1
H0428	Human Ovary	Human Ovary Tumor	Ovary			pSport1
H0429	K562 + PMA (36 hrs),re- excision	K562 Cell line	cell line	Cell Line		ZAP Express
H0431	H. Kidney Medulla, re- excision	Kidney medulla	Kidney			pBluescript
H0433	Human Umbilical Vein Endothelial cells, frac B, re-excision	HUVE Cells	Umbilical · vein	Cell Line		pBluescript
H0434	Human Brain, striatum, re-excision	Human Brain, Striatum				pBluescript
H0435	Ovarian Tumor 10-3-95	Ovarian Tumor, OV350721	Ovary			pCMVSport 2.0
H0436	Resting T-Cell Library,II	T-Cells	Blood	Cell Line		pSport1
H0437	H Umbilical Vein Endothelial Cells, frac A, re-excision	HUVE Cells	Umbilical vein	Cell Line		Lambda ZAP II
H0438	H. Whole Brain #2, re- excision	Human Whole Brain #2				ZAP Express
H0440	FGF enriched mixed library	Mixed libraries				pCMVSport
H0441	H. Kidney Cortex, subtracted	Kidney cortex	Kidney			pBluescript
H0443	H. Adipose, subtracted	Human Adipose, left hiplipoma				pSport1
H0444	Spleen metastic melanoma	Spleen, Metastic malignant melanoma	Spleen		disease	pSport1
H0445	Spleen, Chronic	Human Spleen, CLL	Spleen	 	disease	pSport1
		Lanna Opioon, Chib			2,500,000	I bohave

	lymphocytic leukemia			T		Т
H0448	Salivary gland, subtracted	Human Salivary	Salivary			Lambda
	, , , , , , , , , , , , , , , , , , , ,	Gland	gland			ZAP II
H0449	CD34+ cell, I	CD34 positive cells				pSport1
H0453	H. Kidney Pyramid, subtracted	Kidney pyramids	Kidney			pBluescript
H0455	H. Striatum Depression, subt	Human Brain, Striatum Depression	Brain			pBluescript
H0456	H Kidney Cortex, subtracted III	Human Kidney Cortex				pBluescript .
H0457	Human Eosinophils	Human Eosinophils				pSport1
H0458	CD34+ cell, I, frac II	CD34 positive cells				pSport1
H0459	CD34+cells, II, FRACTION 2	CD34 positive cells				pCMVSport
H0477	Human Tonsil, Lib 3	Human Tonsil	Tonsil	<u> </u>		pSport1
H0478	Salivary Gland, Lib 2	Human Salivary Gland	Salivary gland			pSport1
H0479	Salivary Gland, Lib 3	Human Salivary Gland	Salivary gland			pSport1
H0483	Breast Cancer cell line, MDA 36	Breast Cancer Cell line, MDA 36	Simila		· · ·	pSport1
H0484	Breast Cancer Cell line,	Breast Cancer Cell				pSport1
	angiogenic	line, Angiogenic, 36T3				Poperat
H0485	Hodgkin"s Lymphoma I	Hodgkin"s Lymphoma I			disease	pCMVSport 2.0
H0486	Hodgkin"s Lymphoma II	Hodgkin"s Lymphoma II			disease	pCMVSport 2.0
H0487	Human Tonsils, lib I	Human Tonsils				pCMVSport 2.0
H0488	Human Tonsils, Lib 2	Human Tonsils				pCMVSport 2.0
H0489	Crohn's Disease	Ileum	Intestine		disease	pSport1
H0492	HL-60, RA 4h, Subtracted	HL-60 Cells, RA stimulated for 4H	Blood	Cell Line	,	Uni-ZAP XR
H0494	Keratinocyte	Keratinocyte			4,	pCMVSport 2.0
H0497	HEL cell line	HEL cell line	·	HEL 92.1.7	· · · · · · · · · · · · · · · · · · ·	pSport1
H0505	Human Astrocyte	Human Astrocyte				pSport1
H0506	Ulcerative Colitis	Colon	Colon			pSport1
H0509	Liver, Hepatoma	Human Liver, Hepatoma, patient 8	Liver		disease	pCMVSport 3.0
H0510	Human Liver, normal	Human Liver, normal, Patient # 8	Liver			pCMVSport 3.0
H0512	Keratinocyte, lib 3	Keratinocyte				pCMVSport 2.0
H0517	Nasal polyps	Nasal polyps				pCMVSport 2.0
H0518	pBMC stimulated w/ poly I/C	pBMC stimulated with poly I/C				pCMVSport 3.0
H0519	NTERA2, control	NTERA2, Teratocarcinoma cell line				pCMVSport 3.0
H0520	NTERA2 + retinoic acid, 14 days	NTERA2, Teratocarcinoma cell line	·			pSport1
H0521	Primary Dendritic Cells, lib 1	Primary Dendritic cells	·			pCMVSport 3.0
H0522	Primary Dendritic cells, frac 2	Primary Dendritic cells				pCMVSport 3.0
H0525	PCR, pBMC I/C treated	pBMC stimulated				PCRII

	l .	with poly I/C	 			
H0528	Poly[I]/Poly[C] Normal	Poly[I]/Poly[C]		l		pCMVSport
*****	Lung Fibroblasts	Normal Lung	·	į .		3.0
		Fibroblasts	1	l		
H0529	Myoloid Progenitor Cell	TF-1 Cell Line;				pCMVSport
110323	Line	Myoloid progenitor	į			3.0
	Line	cell line		1		3.0
H0530	Human Dermal	Human Dermal			-	pSport1
110000	Endothelial					psporti
		Endothelial Cells;				
170000	Cells,untreated	untreated				
H0535	Human ovary tumor cell	Ovarian Tumor,	Ovary		disease	pSport1
	OV350721	OV350721·	<u> </u>		·—	
H0537	H. Primary Dendritic	Primary Dendritic				pCMVSport
	Cells,lib 3	cells	<u> </u>			2.0
H0538	Merkel Cells	Merkel cells	Lymph node			pSport1
H0539	Pancreas Islet Cell Tumor	Pancreas Islet Cell	Pancreas	_	disease	pSport1
		Tumour			,	1.
H0540	Skin, burned	Skin, leg burned	Skin			pSport1
H0542	T Cell helper I	Helper T cell				pCMVSport
110572	1 Cell liciper 1	Tresper 1 cen				3.0
H0543	T cell belong H	II alasa Taali		ļi		
NU343	T cell helper II	Helper T cell	ļ	1		pCMVSpor
****						3.0
H0544	Human endometrial	Human endometrial	J			pCMVSpor
	stromal cells	stromal cells				3.0
H0545	Human endometrial	Human endometrial	ľ			pCMVSpor
•	stromal cells-treated with	stromal cells-treated				3.0
	progesterone	with proge	Ì			
H0546	Human endometrial	Human endometrial				pCMVSpor
	stromal cells-treated with	stromal cells-treated				3.0
	estradiol	with estra	1			
H0547	NTERA2 teratocarcinoma	NTERA2,				pSport1
110547	cell line+retinoic acid (14	Teratocarcinoma	į	-		Poporti
	days)	cell line	İ		i	
H0549	H. Epididiymus, caput &	l				II : ZADW
HU349		Human		j ' j		Uni-ZAP X
	corpus	Epididiymus, caput	ĺ			1
****		and corpus	ļ			
H0550	H. Epididiymus, cauda	Human		l		Uni-ZAP X
		Epididiymus, cauda				
H0551	Human Thymus Stromal	Human Thymus	l			pCMVSport
	_Cells	Stromal Cells				3.0
H0553 ·	Human Placenta	Human Placenta	l			pCMVSpor
	·		ļ			3.0
H0555	Rejected Kidney, lib 4	Human Rejected	Kidney		disease	pCMVSport
	l regeneu reamey, no r	Kidney	reidiloy		Gisouse	3.0
H0556	Activated T-	T-Cells	Blood	Cell Line		Uni-ZAP X
110330	cell(12h)/Thiouridine-re-	1-Cens	Dioou	Cen Line		UIII-ZAF A
			i			[
TTOCCO	excision	· · · · · · · · · · · · · · · · · · ·		0 11		1
H0559	HL-60, PMA 4H, re-	HL-60 Cells, PMA	Blood	Cell Line		Uni-ZAP X
	excision	stimulated 4H				
H0560	KMH2	KMH2				pCMVSport
	*					3.0
H0561	L428	L428				pCMVSpor
						3.0
H0565	HUman Fetal Brain,	Human Fetal Brain				pCMVSpor
	normalized 100024F					2.0
H0567	Human Fetal Brain,	Human Fetal Brain				pCMVSpor
	normalized A5002F					2.0
H0569	Human Fetal Brain,	Human Fetal Brain				pCMVSpor
*10703	normalized CO	Cinnai Leigi Digili		*		
TIOCOL		77				2.0
H0571	Human Fetal Brain,	Human Fetal Brain				pCMVSport
	normalized C500HE					2.0
***						. ~ ~ ~ ~ .
H0572	Human Fetal Brain, normalized AC5002	Human Fetal Brain	•			pCMVSport

770674	I I at a bullet T	I I amada a albular	Liver		disease	Lambda
H0574	Hepatocellular Tumor; re- excision	Hepatocellular Tumor	Liver		disease	ZAP II
H0575	Human Adult Pulmonary;re-excision	Human Adult Pulmonary	Lung			Uni-ZAP XR
H0576	Resting T-Cell; re-	T-Cells	Blood	Cell Line		Lambda ZAP II
H0578	Human Fetal Thymus	Fetal Thymus	Thymus			pSport1
H0579	Pericardium	Pericardium ·	Heart	ly.		pSport1
H0580	Dendritic cells, pooled	Pooled dendritic cells				pCMVSport 3.0
H0581	Human Bone Marrow, treated	Human Bone Marrow	Bone Marrow			pCMVSport 3.0
H0583	B Cell lymphoma	B Cell Lymphoma	B Cell		disease	pCMVSport 3.0
H0584	Activated T-cells, 24 hrs,re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0585	Activated T-Cells, 12 hrs, re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0586	Healing groin wound, 6.5 hours post incision	healing groin wound, 6.5 hours post incision - 2/	groin		disease	pCMVSport 3.0
H0587	Healing groin wound; 7.5 hours post incision	Groin-2/19/97	groin		disease	pCMVSport 3.0
H0589	CD34 positive cells (cord blood),re-ex	CD34 Positive Cells	Cord Blood			ZAP Express
H0590	Human adult small intestine,re-excision	Human Adult Small Intestine	Small Int.		,	Uni-ZAP XR
H0591	Human T-cell lymphoma;re-excision	T-Cell Lymphoma	T-Cell		disease	Uni-ZAP XR
H0592	Healing groin wound - zero hr post-incision (control)	HGS wound healing project; abdomen			disease	pCMVSport 3.0
H0593	Olfactory epithelium;nasálcavity	Olfactory epithelium from roof of left nasal cacit				pCMVSport 3.0
H0594	Human Lung Cancer;re- excision	Human Lung Cancer	Lung		disease	Lambda ZAP II
H0595	Stomach cancer (human);re-excision	Stomach Cancer - 5383A (human)	· .		disease	Uni-ZAP XR
H0596	Human Colon Cancer;re- excision	Human Colon Cancer	Colon			Lambda · ZAP II
H0597	Human Colon; re-excision	Human Colon				Lambda ZAP II
H0598	Human Stomach;re- excision	Human Stomach	Stomach			Uni-ZAP XR
H0599	Human Adult Heart;re- excision	Human Adult Heart	Heart			Uni-ZAP XR
H0600	Healing Abdomen wound;70&90 min post incision	Abdomen	·		disease	pCMVSport 3.0
H0601	Healing Abdomen Wound;15 days post incision	Abdomen			disease	pCMVSport 3.0
H0602	Healing Abdomen Wound;21&29 days post incision	Abdomen			disease	pCMVSport 3.0
H0604	Human Pituitary, re- excision	Human Pituitary		-		pBluescript
H0606	Human Primary Breast Cancer;re-excision	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0608	H. Leukocytes, control	H.Leukocytes				pCMVSport
H0610	H. Leukocytes,	H.Leukocytes				pCMVSport

7.1-11	normalized cot 5A					l i
H0611	H. Leukocytes, normalized cot 500 B	H.Leukocytes		. H. 10 (1.0	•	pCMVSport 1
H0612	H.Leukocytes, normalized cot 50 B	H.Leukocytes				pCMVSport
H0613	H.Leukocytes, normalized cot 5B	H.Leukocytes				pCMVSport
H0614	H. Leukocytes, normalized cot 500 A	H.Leukocytes				pCMVSport
H0615	Human Ovarian Cancer Reexcision	Ovarian Cancer	Ovary		disease	Uni-ZAP XR
H0616	Human Testes, Reexcision	Human Testes	Testis		· · · · · · · · · · · · · · · · · · ·	Uni-ZAP XR
H0617	Human Primary Breast Cancer Reexcision	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0618	Human Adult Testes, Large Inserts, Reexcision	Human Adult Testis	Testis			Uni-ZAP XR
H0619	Fetal Heart	Human Fetal Heart	Heart			Uni-ZAP XR
H0620	Human Fetal Kidney; Reexcision	Human Fetal Kidney	Kidney			Uni-ZAP XR
H0622	Human Pancreas Tumor; Reexcision	Human Pancreas Tumor	Pancreas		disease	Uni-ZAP XR
H0623	Human Umbilical Vein; Reexcision	Human Umbilical Vein Endothelial Cells	Umbilical vein			Uni-ZAP XR
H0624	12 Week Early Stage Human II; Reexcision	Twelve Week Old Early Stage Human	Embryo			Uni-ZAP XR
H0625	Ku 812F Basophils Line	Ku 812F Basophils				pSport1
H0626	Saos2 Cells; Untreated	Saos2 Cell Line; Untreated			10	pSport1
H0627	Saos2 Cells; Vitamin D3 Treated	Saos2 Cell Line; Vitamin D3 Treated	,			pSport1
H0628	Human Pre-Differentiated Adipocytes	Human Pre- Differentiated Adipocytes	•			Uni-ZAP XR
H0629	Human Leukocyte, control #2	Human Normalized leukocyte		w		pCMVSport
H0631	Saos2, Dexamethosome Treated	Saos2 Cell Line; Dexamethosome Treated	ē			pSport1
H0632	Hepatocellular Tumor;re- excision	Hepatocellular Tumor	Liver			Lambda ZAP II
H0633	Lung Carcinoma A549 TNFalpha activated	TNFalpha activated A549Lung Carcinoma			disease	pSport1
H0634	Human Testes Tumor, re- excision	Human Testes Tumor	Testis		disease	Uni-ZAP XR
H0635	Human Activated T-Cells, re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0637	Dendritic Cells From CD34 Cells	Dentritic cells from CD34 cells				pSport1
H0638	CD40 activated monocyte dendridic cells	CD40 activated monocyte dendridic cells	·			pSport1
H0639	Ficolled Human Stromal Cells, 5Fu treated	Ficolled Human Stromal Cells, 5Fu treated				Other
H0640	Ficolled Human Stromal Cells, Untreated	Ficolled Human Stromal Cells, Untreated	11.00			Other
H0641	LPS activated derived dendritic cells	LPS activated monocyte derived dendritic cells				pSport1
H0642	Hep G2 Cells, lambda	Hep G2 Cells			· · · · · · · · · · · · · · · · · · ·	Other

	library			T	· · · · · · · · · · · · · · · · · · ·	
H0643	Hep G2 Cells, PCR library	Hep G2 Cells		 		Other
H0644	Human Placenta (re- excision)	Human Placenta	Placenta			Uni-ZAP XR
H0645	Fetal Heart, re-excision	Human Fetal Heart	Heart	111		Uni-ZAP XR
Н0646	Lung, Cancer (4005313 A3): Invasive Poorly Differentiated Lung Adenocarcinoma,	Metastatic squamous cell lung carcinoma, poorly di	,			pSport1
Н0647	Lung, Cancer (4005163 B7): Invasive, Poorly Diff. Adenocarcinoma, Metastatic	Invasive poorly differentiated lung adenocarcinoma			disease	pSport1
H0648	Ovary, Cancer: (4004562 B6) Papillary Serous Cystic Neoplasm, Low Malignant Pot	Papillary Cstic neoplasm of low malignant potentia			disease	pSport1
H0649	Lung, Normal: (4005313 B1)	Normal Lung		-		pSport1
H0650	B-Cells	B-Cells				pCMVSport 3.0
H0651	Ovary, Normal: (9805C040R)	Normal Ovary				pSport1
H0652	Lung, Normal: (4005313 B1)	Normal Lung				pSport1
H0653	Stromal Cells	Stromal Cells				pSport1
H0654	Lung, Cancer: (4005313 A3) Invasive Poorly- differentiated Metastatic lung adenoc	Metastatic Squamous cell lung Carcinoma poorly dif				Other
H0656	B-cells (unstimulated)	B-cells (unstimulated)				pSport1
H0657	B-cells (stimulated)	B-cells (stimulated)			• •	pSport1
H0658	Ovary, Cancer (9809C332): Poorly differentiated adenocarcinoma	9809C332- Poorly differentiate	Ovary & Fallopian Tubes		disease	pSport1
H0659	Ovary, Cancer (15395A1F): Grade II Papillary Carcinoma	Grade II Papillary Carcinoma, Ovary	Ovary		disease	pSport1
H0660	Ovary, Cancer: (15799A1F) Poorly differentiated carcinoma	Poorly differentiated carcinoma, ovary			disease	pSport1
H0661	Breast, Cancer: (4004943 A5)	Breast cancer	·		disease	pSport1
H0662	Breast, Normal: (4005522B2)	Normal Breast - #4005522(B2)	Breast		•	pSport1
H0663	Breast, Cancer: (4005522 A2)	Breast Cancer - #4005522(A2)	Breast		disease	pSport!
H0664	Breast, Cancer: (9806C012R)	Breast Cancer	Breast		disease	pSport1
H0665	Stromal cells 3.88	Stromal cells 3.88		1	1.	pSport1
H0666	Ovary, Cancer: (4004332 A2)	Ovarian Cancer, Sample #4004332A2			disease	pSport1
H0667	Stromal cells(HBM3.18)	Stromal cell(HBM 3.18)				pSport1
H0668	stromal cell clone 2.5	stromal cell clone 2.5			×	pSport1
H0669	Breast, Cancer: (4005385 A2)	Breast Cancer (4005385A2)	Breast			pSport1
H0670	Ovary, Cancer (4004650 A3): Well-Differentiated	Ovarian Cancer - 4004650A3				pSport1

· ·	Micropapillary Serous			· .		
	Carcinoma					
H0671	Breast, Cancer: (9802C02OE)	Breast Cancer- Sample # 9802C02OE		X		pSport1
H0672	Ovary, Cancer: (4004576 A8)	Ovarian Cancer(4004576A8)	Ovary			pSport1
H0673	Human Prostate Cancer, Stage B2; re-excision	Human Prostate Cancer, stage B2	Prostate			Uni-ZAP XR
H0674	Human Prostate Cancer, Stage C; re-excission	Human Prostate Cancer, stage C	Prostate			Uni-ZAP XR
H0675	Colon, Cancer: (9808C064R)	Colon Cancer 9808C064R				pCMVSport 3.0
H0676	Colon, Cancer: (9808C064R)-total RNA	Colon Cancer 9808C064R				pCMVSport 3.0
H0677	TNFR degenerate oligo	B-Cells				PCRII
H0682	Serous Papillary Adenocarcinoma	serous papillary adenocarcinoma (9606G304SPA3B)	, ;			pCMVSport 3.0
H0683	Ovarian Serous Papillary Adenocarcinoma	Serous papillary adenocarcinoma, stage 3C (9804G01				pCMVSport 3.0
H0684	Serous Papillary Adenocarcinoma	Ovarian Cancer- 9810G606	Ovaries			pCMVSport 3.0
H0685	Adenocarcinoma of Ovary, Human Cell Line, # OVCAR-3	Adenocarcinoma of Ovary, Human Cell Line, # OVCAR-				pCMVSport 3.0
H0686	Adenocarcinoma of Ovary, Human Cell Line	Adenocarcinoma of Ovary, Human Cell Line, # SW-626			·	pCMVSport 3.0
H0687	Human normal ovary(#9610G215)	Human normal ovary(#9610G215)	Ovary			pCMVSport 3.0
H0688	Human Ovarian Cancer(#9807G017)	Human Ovarian cancer(#9807G017), mRNA from Maura Ru				pCMVSport 3.0
H0689	Ovarian Cancer	Ovarian Cancer, #9806G019				pCMVSport 3.0
H0690	Ovarian Cancer, # 9702G001	Ovarian Cancer, #9702G001				pCMVSport 3.0
H0691	Normal Ovary, #9710G208	normal ovary, #9710G208				pCMVSport 3.0
H0692	BLyS Receptor from Expression Cloning	B Cell Lymphoma	B Cell		0	pCMVSport 3.0
H0693	Normal Prostate #ODQ3958EN	Normal Prostate Tissue # ODQ3958EN		,		pCMVSport 3.0
H0694	Prostate gland adenocarcinoma	Prostate gland, adenocarcinoma, mod/diff, gleason	prostate gland		_	pCMVSport 3.0
H0695	mononucleocytes from patient	mononucleocytes from patient at Shady Grove Hospit				pCMVSport 3.0
N0006	Human Fetal Brain	Human Fetal Brain				
N0007	Human Hippocampus	Human Hippocampus				
N0009	Human Hippocampus, prescreened	Human Hippocampus				×
S0001	Brain frontal cortex	Brain frontal cortex	Brain			Lambda ZAP II
S0002	Monocyte activated	· Monocyte-activated	blood	Cell Line		Uni-ZAP XR
S0003	Human Osteoclastoma	Osteoclastoma	bone		disease	Uni-ZAP XR
S0004	Prostate	Prostate BPH	Prostate			Lambda

						ZAP II
S0006	Neuroblastoma	Human Neural Blastoma			disease	pCDNA
S0007	Early Stage Human Brain	Human Fetal Brain				Uni-ZAP XR
S0010	Human Amygdala	Amygdala				Uni-ZAP XR
S0011	STROMAL - OSTEOCLASTOMA	Osteoclastoma	bone		disease	Uni-ZAP XR
S0013	Prostate	Prostate	prostate			Uni-ZAP XR
S0015	Kidney medulla	Kidney medulla	Kidney	111		Uni-ZAP XR
S0016	Kidney Pyramids	Kidney pyramids	Kidney			Uni-ZAP XR
S0022	Human Osteoclastoma Stromal Cells - unamplified	Osteoclastoma Stromal Cells	, ,			Uni-ZAP XR
S0023	Human Kidney Cortex - unamplified	Human Kidney Cortex			. ,	
S0026	Stromal cell TF274	stromal cell	Bone marrow	Cell Line		Uni-ZAP XR
S0027	Smooth muscle, serum treated	Smooth muscle	Pulmanary artery	Cell Line		Uni-ZAP XR
S0028	Smooth muscle, control	Smooth muscle	Pulmanary artery	Cell Line		Uni-ZAP XR
S0031	Spinal cord	Spinal cord	spinal cord			Uni-ZAP XR
S0032	Smooth muscle-ILb induced	Smooth muscle	Pulmanary artery	Cell Line		Uni-ZAP XR
S0036	Human Substantia Nigra	Human Substantia Nigra			. "	Uni-ZAP XR
S0037	Smooth muscle, IL1b induced	Smooth muscle	Pulmanary artery	Cell Line		Uni-ZAP XR
S0038	Human Whole Brain #2 - Oligo dT > 1.5Kb	Human Whole Brain #2				ZAP Express
S0040	Adipocytes	Human Adipocytes from Osteoclastoma				Uni-ZAP XR
S0044	Prostate BPH	prostate BPH	Prostate		disease .	Uni-ZAP XR
S0045	Endothelial cells-control	Endothelial cell	endothelial cell-lung	Cell Line		Uni-ZAP XR
S0046	Endothelial-induced	Endothelial cell	endothelial cell-lung	Cell Line		Uni-ZAP XR
S0048	Human Hypothalamus, Alzheimer"s	Human Hypothalamus, Alzheimer"s			disease	Uni-ZAP XR
S0049	Human Brain, Striatum	Human Brain, Striatum				Uni-ZAP XR
S0050	Human Frontal Cortex, Schizophrenia	Human Frontal Cortex, Schizophrenia			disease	Uni-ZAP XR
S0051	Human Hypothalmus,Schizophren ia	Human Hypothalamus, Schizophrenia			disease	Uni-ZAP XR
S0052	neutrophils control	human neutrophils	blood	Cell Line		Uni-ZAP XR
S0053	Neutrophils IL-1 and LPS induced	human neutrophil induced	blood	Cell Line		Uni-ZAP XR
S0106	STRIATUM DEPRESSION		BRAIN		disease	Uni-ZAP XR
S0110	Brain Amygdala Depression		Brain		disease	Uni-ZAP XR
S0112	Hypothalamus		Brain			Uni-ZAP XR
S0114	Anergic T-cell	Anergic T-cell		Cell Line	10 L	Uni-ZAP XR
S0116	Bone marrow	Bone marrow	Bone marrow			Uni-ZAP XR
S0118	Smooth muscle control 2	Smooth muscle	Pulmanary artery	Cell Line		Uni-ZAP XR
S0126	Osteoblasts	Osteoblasts	Knee	Cell Line	12	Uni-ZAP XR
S0132	Epithelial-TNFa and INF	Airway Epithelial	,			Uni-ZAP XR
	induced			\		1

		ate and the second				
S0134	Apoptotic T-cell	apoptotic cells		Cell Line	<u></u>	Uni-ZAP XR
S0136	PERM TF274	stromal cell	Bone marrow	Cell Line		Lambda
		<u> </u>				ZAP II
S0140	eosinophil-IL5 induced	eosinophil	lung	Cell Line		Uni-ZAP XR
S0142	Macrophage-oxLDL	macrophage-	plooq	Cell Line		Uni-ZAP XR
		oxidized LDL				
		treated	<u> </u>			·
S0144	Macrophage (GM-CSF	Macrophage (GM-				Uni-ZAP XR
	treated)	CSF treated)				
S0146	prostate-edited	prostate BPH	Prostate			Uni-ZAP XR
S0148	Normal Prostate	Prostate	prostate			Uni-ZAP XR
S0150	LNCAP prostate cell line	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
S0152	PC3 Prostate cell line	PC3 prostate cell	•			Uni-ZAP XR
		line		<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>
S0168	Prostate/LNCAP,	PC3 prostate cell			•	pBluescript
5015	subtraction I	line				TI CEAD VD
S0176	Prostate, normal,	Prostate	prostate			Uni-ZAP XR
00100	subtraction I		<u> </u>		4	II-: 7AD VD
S0180	Bone Marrow Stroma,	Bone Marrow	-		disease	Uni-ZAP XR
	TNF&LPS ind	Stroma, TNF & LPS induced		- 1	. •	
S0182	Human B Cell 8866	Human B- Cell 8866		-		Uni-ZAP XR
S0188	Prostate, BPH, Lib 2	Human Prostate		-	disease	pSport1
20100	Prostate, prn, Lio 2	BPH		• 1	uiscase	poporti
S0190	Prostate BPH,Lib 2,	Human Prostate				pSport1
50170	subtracted	BPH				Popolii
S0192	Synovial Fibroblasts.	Synovial Fibroblasts				pSport1
	(control)	0,			• 1	
S0194	Synovial hypoxia	Synovial Fibroblasts				pSport1
S0196	Synovial IL-1/TNF	Synovial Fibroblasts				pSport1
	stimulated					
S0206	Smooth Muscle- HASTE	Smooth muscle	Pulmanary	Cell Line		pBluescript
	normalized		artery	11		
S0208	Messangial cell, frac 1	Messangial cell				pSport1
S0210	Messangial cell, frac 2	Messangial cell				pSport1
S0212	Bone Marrow Stromal	Bone Marrow				pSport1
	Cell, untreated	Stromal			•	1
		Cell,untreated			-	11 : 71 7 37
S0214	Human Osteoclastoma, re-	Osteoclastoma	bone	. 1	disease	Uni-ZAP XR
00016	excision	1		Callian		Uni-ZAP XR
S0216	Neutrophils IL-1 and LPS	human neutrophil induced	blood	Cell Line		Uni-ZAP AR
C0210	induced		9 X 9 2000	Cell Line		Uni-ZAP XR
S0218	Apoptotic T-cell, re- excision	apoptotic cells		Cen Line		Uni-ZAF AR
S0220	H. hypothalamus, frac	Hypothalamus	Brain			ZAP Express
30220	A;re-excision	Trypomaianus	Diam		•	ZAI Express
S0222	H. Frontal	H. Brain, Frontal	Brain		disease	Uni-ZAP XR
00222	cortex,epileptic;re-	Cortex, Epileptic	Diam		Gisotoc	
. *	excision	Contox, Epinepine	*			
S0228	PSMIX	PBLS, 7TM				PCRII
		receptor enriched				
S0238	PYFD	PYFD		11	10	PCRII
S0242	Synovial Fibroblasts	Synovial Fibroblasts				pSport1
	(III/TNF), subt		*			
S0250	Human Osteoblasts II	Human Osteoblasts	Femur		disease	pCMVSport
						2.0
S0252	7TM-PIMIX	PBLS, 7TM				PCRII
	70.4.1.1	receptor enriched				<u> </u>
S0256	7TM-PHMIX	PBLS, 7TM				PCRII
- <u>1</u> 1 - 1 -		receptor enriched	<u></u>			
S0258	7TM-PNMIX	PBLS, 7TM	1		v.	PCRII
	1	receptor enriched	1	t i		1

S0260	Spinal Cord, re-excision	Spinal cord	spinal cord			Uni-ZAP XR
S0266	PLMIX	PLMIX (Human	Lung			PCRII
		Lung)			<u> </u>	PCRII
S0268	PRMIX	PRMIX (Human Prostate)	prostate			
S0270	PTMIX	PTMIX (Human Thymus)	Thymus			PCRII
S0276	Synovial hypoxia-RSF subtracted	Synovial fobroblasts (rheumatoid)	Synovial tissue			pSport1
S0278	H Macrophage (GM-CSF treated), re-excision	Macrophage (GM- CSF treated)				Uni-ZAP XR
S0280	Human Adipose Tissue,	Human Adipose Tissue				Uni-ZAP XR
S0282	Brain Frontal Cortex, re- excision	Brain frontal cortex	Brain			Lambda ZAP II
S0294	Larynx tumor	Larynx tumor	Larynx,vocal cord		disease	pSport1
S0300	Frontal lobe,dementia;re- excision	Frontal Lobe dementia/Alzheimer'	Brain		,	Uni-ZAP XR
S0306	Larynx normal #10 261- 273	Larynx normal				pSport1
S0308	Spleen/normal	Spleen normal				pSport1
S0310	Normal trachea	Normal trachea				pSport1
S0312	Human osteoarthritic; fraction II	Human osteoarthritic cartilage			disease	pSport1
S0314	Human osteoarthritis;fraction I	Human osteoarthritic cartilage			disease	pSport1
S0316	Human Normal Cartilage, Fraction I	Human Normal Cartilage				pSport1
S0318	Human Normal Cartilage Fraction II	Human Normal Cartilage				pSport1
S0324	Human Brain	Brain	Cerebellum			pSport1
S0328	Palate carcinoma	Palate carcinoma	Uvula		disease	pSport1
S0330	Palate normal	Palate normal	Uvula			pSport1
S0332	Pharynx carcinoma	Pharynx carcinoma	Hypopharynx			pSport1
S0334	Human Normal Cartilage Fraction III	Human Normal Cartilage		0.1	•)	pSport1
S0336	Human Normal Cartilage Fraction IV	Human Normal Cartilage				pSport1
S0338	Human Osteoarthritic Cartilage Fraction III	Human osteoarthritic cartilage			disease	pSport1
S0342	Adipocytes;re-excision	Human Adipocytes from Osteoclastoma	,			Uni-ZAP XR
S0344	Macrophage-oxLDL; re- excision	macrophage- oxidized LDL treated	blood	Cell Line		Uni-ZAP XR
S0346	Human Amygdala;re- excision	Amygdala	•			Uni-ZAP XR
S0348	Cheek Carcinoma	Cheek Carcinoma			disease	pSport1
S0350	Pharynx Carcinoma	Pharynx carcinoma	Hypopharynx		disease	pSport1
S0354	Colon Normal II	Colon Normal	Colon			pSport1
S0356	Colon Carcinoma	Colon Carcinoma	Colon		disease	pSport1
S0358	Colon Normal III	Colon Normal	Colon			pSport1
S0360	Colon Tumor II	Colon Tumor	Colon		disease	pSport1
S0362	Human Gastrocnemius	Gastrocnemius muscle				pSport1
S0364	Human Quadriceps	Quadriceps muscle	ļ			pSport1
S0366	Human Soleus	Soleus Muscle	L			pSport1

C0270	Larynx carcinoma II	Larynx carcinoma		1	disease	pSport1
S0370 S0372	Larynx carcinoma III	Larynx carcinoma		1	disease	pSport1
S0372	Normal colon	Normal colon		 	distass	pSport1
S0376	Colon Tumor	Colon Tumor		 	disease	pSport1
S0378	Pancreas normal PCA4	Pancreas Normal				pSport1
1 302.0	No	PCA4 No		1 1		
S0380	Pancreas Tumor PCA4 Tu	Pancreas Tumor			disease	pSport1
		PCA4 Tu				
S0382	Larynx carcinoma IV	Larynx carcinoma			disease	pSport1
S0384	Tongue carcinoma	Tongue carcinoma			disease	pSport1
S0386	Human Whole Brain, re- excision	Whole brain	Brain			ZAP Express
S0388	Human	Human			disease	Uni-ZAP XR
	Hypothalamus, schizophre	Hypothalamus,		1	,	
	nia, re-excision	Schizophrenia				l
S0390	Smooth muscle, control; re-excision	Smooth muscle	Pulmanary artery	Cell Line		Uni-ZAP XR
S0392	Salivary Gland	Salivary gland; normal				pSport1
S0396	Uterus; normal	Uterus; normal				pSport1
S0400	Brain; normal	Brain; normal				pSport1
S0402	Adrenal Gland, normal	Adrenal gland;				pSport1
		normal				
S0404	Rectum normal	Rectum, normal				pSport1
S0406	Rectum tumour	Rectum tumour				pSport1
S0408	Colon, normal	Colon, normal				pSport1
S0410	Colon, tumour	Colon, tumour				pSport1
S0412	Temporal cortex-	Temporal cortex,	•		disease '	Other
	Alzheizmer; subtracted	alzheimer		ļi		
S0414	Hippocampus, Alzheimer	Hippocampus,		1	•	Other
	Subtracted	Alzheimer				İ
S0418	CHME Cell Line;treated 5	Subtracted CHME Cell Line;	, , , , , , , , , , , , , , , , , , , ,			pCMVSport
30410	hrs	treated		·		3.0
S0420	CHME Cell	CHME Cell line,				pSport1
30.120	Line untreated	untreatetd		1		1
S0422	Mo7e Cell Line GM-CSF	Mo7e Cell Line				pCMVSport
	treated (lng/ml)	GM-CSF treated				3.0
		(1ng/ml)	•			
S0424	TF-1 Cell Line GM-CSF	TF-1 Cell Line				pSport1
	Treated	GM-CSF Treated				· ·
S0426	Monocyte activated; re-	Monocyte-activated	blood	Cell Line		Uni-ZAP XR
	excision					
S0428	Neutrophils control; re- excision	human neutrophils	blood	Cell Line		Uni-ZAP XR
S0430	Aryepiglottis Normal	Aryepiglottis Normal				pSport1
S0432	Sinus piniformis Tumour	Sinus piniformis Tumour	-	·		pSport1
S0434	Stomach Normal	Stomach Normal			disease	pSport1
S0436	Stomach Tumour	Stomach Tumour			disease	pSport1
S0438	Liver Normal Met5No	Liver Normal Met5No				pSport1
S0440	Liver Tumour Met 5 Tu	Liver Tumour		 		pSport1
S0442	Colon Normal	Colon Normal		1.		pSport1
S0444	Colon Tumor	Colon Turnour		 	disease	pSport1
S0446	Tongue Tumour	Tongue Tumour		 	0,0000	pSport1
S0448	Larynx Normal	Larynx Normal		 		pSport1
S0450	Larynx Tumour	Larynx Tumour				pSport1
S0452	Thymus	Thymus		1	<u></u>	pSport1
S0458	Thyroid Normal (SDCA2	Thyroid normal		T		pSport1
	No)					<u></u>

S0460	Thyroid Tumour	Thyroid Tumour			12	pSport1
S0462	Thyroid Thyroiditis	Thyroid Thyroiditis				pSport1
S0464	Larynx Normal	Larynx Normal				pSport1
S0466	Larynx Tumor	Larynx Tumor	· ·		disease	pSport1
S0468	Ea.hy.926 cell line	Ea.hy.926 cell line				pSport1
S0472	Lung Mesothelium	PYBT		-		pSport1
S0474	Human blood platelets	Platelets	Blood			Other
S0665	Human Amygdala; re- excission	Amygdala	platelets		31	Uni-ZAP XR
S3012	Smooth Muscle Serum Treated, Norm	Smooth muscle	Pulmanary artery	Cell Line		pBluescript
S3014	Smooth muscle, serum induced,re-exc	Smooth muscle	Pulmanary artery	Cell Line	-	pBluescript
S3018	THI cells	THI cells				Uni-ZAP XR
S3020	TH2 cells	TH2 cells				Uni-ZAP XR
S6014	H. hypothalamus, frac A	Hypothalamus	Brain			ZAP Express
S6016	H. Frontal Cortex, Epileptic	H. Brain, Frontal Cortex, Epileptic	Brain		disease	Uni-ZAP XR
S6022	H. Adipose Tissue	Human Adipose Tissue			· ·	Uni-ZAP XR
S6024	Alzheimers, spongy change	Alzheimer"s/Spongy change	Brain		disease	Uni-ZAP XR
S6026	Frontal Lobe, Dementia	Frontal Lobe dementia/Alzheimer'	Brain			Uni-ZAP XR
S6028	Human Manic Depression Tissue	Human Manic depression tissue	Brain		disease	Uni-ZAP XR
T0001	Human Brown Fat	Brown Fat				pBluescript . SK-
T0002	Activated T-cells	Activated T-Cell, PBL fraction	Blood	Cell Line		pBluescript SK-
T0003	Human Fetal Lung	Human Fetal Lung				pBluescript SK-
T0004	Human White Fat	Human White Fat				pBluescript SK-
T0006	Human Pineal Gland	Human Pinneal Gland				pBluescript SK-
T0008	Colorectal Tumor	Colorectal Tumor			disease	pBluescript SK-
T0010	Human Infant Brain	Human Infant Brain	-			Other
T0023	Human Pancreatic	Human Pancreatic		-	disease	pBluescript SK-
T0039	Carcinoma HSA 172 Cells	Carcinoma Human HSA172 cell				pBluescript
T0040	HSC172 cells	line SA172 Cells	3			SK- pBluescript
T0041	Jurkat T-cell G1 phase	Jurkat T-cell				SK- pBluescript
T0042	Jurkat T-Cell, S phase	Jurkat T-Cell Line				pBluescript SK-
T0047	T lymphocytes >70	T lymphocytes > 70				pBluescript SK-
T0048	Human Aortic Endothelium	Human Aortic Endothilium	,	<u> </u>		pBluescript SK-
T0049	Aorta endothelial cells + TNF-a	Aorta endothelial cells				pBluescript SK-
T0060	Human White Adipose	Human White Fat				pBluescript SK-
T0067	Human Thyroid	Human Thyroid				pBluescript SK-
T0068	Normal Ovary,	Normal Ovary,				pBluescript

_	Premenopausal	Premenopausal				SK-
T0069	Human Uterus, normal	Human Uterus,				pBluescript
	,	normal				SK-
T0071	Human Bone Marrow	Human Bone				pBluescript
		Маттом				SK-
T0074	Human Adult Retina	Human Adult Retina				pBluescriptI SK-
T0082	Human Adult Retina	Human Adult Retina				pBluescript SK-
T0086	Human Pancreatic	Human Pancreatic			disease	pBluescript
10000	Carcinoma Screened	Carcinoma		l		SK-
T0109	Human (HCC) cell line			1		pBluescript
	liver (mouse) metastasis, remake	• ,				SK-
T0110	Human colon carcinoma					pBluescript
	(HCC) cell line, remake	A				SK-
T0112	Human (Caco-2) cell line,	1				pBluescript
_ :	adenocarcinoma, colon			<u> </u>		SK-
T01-14	Human (Caco-2) cell line,					pBluescript
:	adenocarcinoma, colon,				ł	SK-
	remake	7. 4	2			
T0115	Human Colon Carcinoma					pBluescript
	(HCC) cell line			<u> </u>		SK-
L0002	Atrium cDNA library					
	Human heart			l	L	
L0005	Clontech human aorta					
	polyA+ mRNA (#6572)		·	<u> </u>	·	
L0015	Human					
L0021	Human adult (K.Okubo)					
L0022	Human adult lung 3"					
	directed MboI cDNA					
L0033	Human chromosome 13q14 cDNA	,				
L0040	Human colon mucosa					
L0041	Human epidermal keratinocyte					
L0052	Human normalized K562- cDNA				•	
L0055	Human promyelocyte	Œ.				
L0062	Human whole brain					
L0065	Liver HepG2 cell line.	,				
L0097	Subtracted human retinal			<u> </u>		
	pigment epithelium (RPE)				ĺ	
L0105	Human aorta polyA+ (TFujiwara)	aorta				
L0109	Human brain cDNA	brain	-2			
L0142	Human placenta cDNA (TFujiwara)	placenta				
L0143	Human placenta polyA+ (TFujiwara)	placenta				
L0149	DKFZphsnü1	subthalamic nucleus		i.	T	
L0151	Human testis (C. De	testis				,
	Smet)					
L0157	Human fetal brain (TFujiwara)		brain			
L0163	Human heart cDNA (YNakamura)		heart			
L0179	Human lung adenocarcinoma (M.Wu)	lung adenocarcinoma		GLC-82		
L0194	Human pancreatic cancer cell line Patu 8988t	pancreatic cancer		Patu 8988t		
L0351	Infant brain, Bento Soares				T	BA, M13-

						derived
L0352	Normalized infant brain,					BA, M13-
	Bento Soares				ļ	derived
L0355	P, Human foetal Brain Whole tissue					Bluescript
L0356	S, Human foetal Adrenals tissue				<u> </u>	Bluescript ·
L0359	X, Human Liver tissue					Bluescript KS II+
L0360	Y, Human Placenta tissue					Bluescript KS II+
L0361	Stratagene ovary (#937217)		ovary			Bluescript SK
L0362	Stratagene ovarian cancer (#937219)					Bluescript SK-
L0363	NCI_CGAP_GC2	germ cell tumor				Bluescript SK-
L0364	NCI_CGAP_GC5	germ cell tumor				Bluescript SK-
L0366	Stratagene schizo brain S11	schizophrenic brain S-11 frontal lobe	<u>-</u> -			Bluescript SK-
L0367	NCI_CGAP_Sch1	Schwannoma tumor				Bluescript SK-
L0368	NCI_CGAP_SS1	synovial sarcoma				Bluescript SK-
L0369	NCI_CGAP_AA1	adrenal adenoma	adrenal gland			Bluescript SK-
L0370	Johnston frontal cortex	pooled frontal lobe	brain	-	·	Bluescript SK-
L0371	NCI_CGAP_Br3	breast tumor	breast			Bluescript SK-
L0372	NCI_CGAP_Co12	colon tumor	colon			Bluescript SK-
L0373	NCI_CGAP_Col1	tumor	colon			Bluescript SK-
L0374	NCI_CGAP_Co2	tumor	colon	,		Bluescript SK-
L0375	NCI_CGAP_Kid6	kidney tumor	kidney			Bluescript SK-
L0376	NCI_CGAP_Lar1	larynx	larynx			Bluescript SK-
L0377	NCI_CGAP_HN2	squamous cell carcinoma from vocal cord	larynx			Bluescript SK-
L0378	NCI_CGAP_Lu1	lung tumor	lung			Bluescript SK-
L0379	NCI_CGAP_Lym3	lymphoma	lymph node			Bluescript SK-
L0381	NCI_CGAP_HN4	squamous cell carcinoma	pharynx	·		Bluescript SK-
L0382	NCI_CGAP_Pr25	epithelium (cell line)	prostate			Bluescript SK-
L0383	NCI_CGAP_Pr24	invasive tumor (cell	prostate	·.	_	Bluescript SK-
L0384	NCI_CGAP_Pr23	prostate tumor	prostate			Bluescript SK-
L0386	NCI_CGAP_HN3	squamous cell carcinoma from base of tongue	tongue	-		Bluescript SK-
L0387	NCI_CGAP_GCB0	germinal center B- cells	tonsil			Bluescript SK-
L0388	NCI_CGAP_HN6	normal gingiva (cell line from				Bluescript SK-
		line from	<u> </u>			SK-

L0389 NCL_CGAP_HNS		<u> </u>	immortalized kerati			T'	
1.0393 B., Human Liver tissue	1.0389	NCI CGAP HN5		·		 	Blúescript
1,0393 B, Human Liver tissue				-			
1,0393 B, Human Liver tissue .						1	•
Lafmid A	L0393	B. Human Liver tissue					gt11
1.0410							
Lafmid BA	1.0411						
B			- 0				Lafmid BA
Lafinid BA	20110					1	
Cot109+103+85-Bio Lafinid BA	1.0419	b4HB3MA-					Lafmid BA
Lafinid BA			·			1	
Bio	1.0420						Lafmid BA
Lafnrid BA	20.20						
Loffield BA	1.0425						Lafmid BA
L0435							
L0438 OFD. M. Soares INIB L0438 Derivative Deri					<u> </u>		
L0438	LU433		,	,			I ALLIEU DA
CDNA	10438		total brain	brain			lafmid BA
Lot41	L0430		iotai orain	Ulani	ł		Idling DA
L0441 L1B3MK	1.0420		***	whole brain			Lafmid DA
L0444				WHOLE DIALLI			
L0448 3HFLSK20 Lafnid K			·	·	ļ:		
L0454 Clontech adult human fat cell library HL1108A L10455 Luman retina cDNA randomly primed sublibrary L0456 Human retina cDNA Tap5091-cleaved sublibrary L10456 Human retina cDNA Tap5091-cleaved sublibrary L10462 WATM1 L10468 L10468 L10471 L10468 L10471 L104						 	
Cell library HL1108A Fetina Eye Iambda gt10							
L0455 Human retina cDNA randomly primed sublibrary L0456 Human retina cDNA Tsp5091-cleaved sublibrary L0462 WATM1 lambda gt10 L0468 HE6W lambda ZAP Express L0471 Human fetal heart, Lambda ZAP Express L0475 KG1-a Lambda ZAP Express (Strabgene) L0476 HPLA CCLee placenta L0480 Stratagene cat#937212 (1992) L0481 CD34+DIRECTIONAL L0483 Human pancreatic islet L0483 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. L0493 NCI_CGAP_DV26 papillary serous donor L0497 NCI_CGAP_HSC4 CD34+, CD35- from normal bone marrow donor L0498 NCI_CGAP_HSC3 CD34+7, T negative, patient with chronic myelogenou L0499 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0499 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0490 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0490 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0490 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0490 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0490 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0500 NCI_CGAP_BRC2 oligodendroglioma brain	L0454				Ì	Í	lambda gt10
Tandomly primed Sublibrary Lot-10							1 11 110
Sublibrary Company C	L0455		retina	eye		1.	lambda gt I U
Lo456					1		l. •
Tsp509I-cleaved sublibrary	7.0455					 	1 11 110
L0462 WATM1	L0456		retina	eye	·	1	lambda gt I U
L0462 WATM1					}	1	1
L0468 HE6W Lambda Zap Lambda ZAP Express Lambda ZAP Express Lambda ZAP Express Lambda ZAP Express Lambda ZAP Express Lambda Zap Lambda Zap Express cDNA library Lambda Zap Express cDNA library Lambda Zap Lambda ZaP Lambda	T 0 4 6 0						1 1 1 11
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Lambda ZAP Express LO475 KG]-a Lambda Zap Express cDNA library Express cDNA library LO477 HPLA CCLee placenta Lo480 Stratagene cat#937212 (1992) LO481 CD34+DIRECTIONAL LO483 Human pancreatic islet Lo485 STRATAGENE Human skeletal muscle skeletal muscle cDNA library, cat. #936215. LO493 NCI_CGAP_Ov26 Papillary serous carcinoma LO497 NCI_CGAP_HSC4 CD34+, T negative, patient with chronic myelogenou LO499 NCI_CGAP_BSC2 Stem cell 34+/38+ bone marrow DAMP1 LO500 NCI_CGAP_Brn20 CD34P_ISC3 CD34MP1 LO500 NCI_CGAP_Brn20 Oligodendroglioma Lo497 NCI_CGAP_Brn20 Lo498 NCI_CGAP_Brn20 Oligodendroglioma LO499 NCI_CGAP_Brn20 Lo499 NCI_CGAP_Brn20 Oligodendroglioma LO497 NCI_CGAP_Brn20 Lo498 NCI_CGAP_Brn20 LO499 NCI_CGAP_Brn20 Oligodendroglioma LO490 NCI_CGAP_Brn20 LO490 NCI_CGAP_Brn20 LO490 NCI_CGAP_Brn20 LO490 NCI_CGAP_Brn20 Oligodendroglioma LO490 NCI_CGAP_Brn20 LO490 NCI_CGAP_Brn20 LO490 NCI_CGAP_Brn20 LO490 NCI_CGAP_Brn20 Oligodendroglioma					ļ		
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Express cDNA library L0477 HPLA CCLee placenta Express (Stratagene) L0480 Stratagene cat#937212 Lambda ZAP II L0481 CD34+DIRECTIONAL Lambda ZAPII L0483 Human pancreatic islet ZAPII L0485 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. L0493 NCI_CGAP_Ov26 papillary serous carcinoma carcinoma bone marrow donor L0497 NCI_CGAP_HSC4 CD34+, CD38- from normal bone marrow donor L0498 NCI_CGAP_HSC3 CD34+, T negative, patient with chronic myelogenou stem cell 34+/38+ bone marrow pAMP1 L0499 NCI_CGAP_BRC2 stem cell 34+/38+ bone marrow pAMP1 L0500 NCI_CGAP_Brn20 oligodendroglioma brain pAMP1						ļ	
L0477 HPLA CCLee placenta	L0475			·	KG1-a	1	
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CD34+DIRECTIONAL Lambda ZAPII		<u> </u>		<u> </u>		<u> </u>	
L0481 CD34+DIRECTIONAL L0483 Human pancreatic islet Lambda ZAPII L0485 STRATAGENE Human skeletal muscle leg muscle Lo496 NCI_CGAP_Ov26 papillary serous carcinoma L0497 NCI_CGAP_HSC4 CD34+, CD38- from normal bone marrow donor L0498 NCI_CGAP_HSC3 CD34+, T negative, patient with chronic myelogenou L0499 NCI_CGAP_HSC2 stem cell 34+/38+ bone marrow DAMP1	L0480		}) ·	1	
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L0485 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. L0493 NCI_CGAP_Ov26 papillary serous carcinoma L0497 NCI_CGAP_HSC4 CD34+, CD38- from normal bone marrow donor L0498 NCI_CGAP_HSC3 CD34+, T negative, patient with chronic myelogenou L0499 NCI_CGAP_HSC2 stem cell 34+/38+ bone marrow DAMP1 L0500 NCI_CGAP_Brn20 oligodendroglioma brain Lambda ZAPII Lambda ZAPII Lambda ZAPII Lambda ZAPII Lambda ZAPII bone marrow pAMP1 bone marrow pAMP1 Lambda ZAPII Lambda ZAPII Lambda ZAPII bone marrow pAMP1 bone marrow pAMP1 pAMP1	L0483	Human pancreatic islet			1		
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L0499 NCI_CGAP_HSC2 stem cell 34+/38+ bone marrow pAMP1 L0500 NCI_CGAP_Brn20 oligodendroglioma brain pAMP1	L0498	NCI_CGAP_HSC3		bone marrow	12.	1	pAMP1
L0499 NCI_CGAP_HSC2 stem cell 34+/38+ bone marrow pAMP1 L0500 NCI_CGAP_Brn20 oligodendroglioma brain pAMP1				,	[i	
L0500 NCI_CGAP_Brn20 oligodendroglioma brain pAMP1							
						<u> </u>	
L0501 NCI_CGAP_Brn21 oligodendroglioma brain DAMP1					<u> </u>		
	L0501.	NCI_CGAP_Bm21	oligodendroglioma	brain		1	pAMP1

L0509	NCI_CGAP_Lu26	invasive adenocarcinoma	lung			pAMP1
L0510	NCI_CGAP_Ov33	borderline ovarian carcinoma	ovary			pAMP1
L0512	NCI_CGAP_Ov36	borderline ovarian carcinoma	ovary			pAMP1
L0513	NCI_CGAP_Ov37	early stage papillary serous carcinoma	ovary			pAMP1
L0515	NCI_CGAP_Ov32	papillary serous	ovary			pAMP1
L0517	NCI CGAP Pr1	Caromona				pAMP10
L0518	NCI CGAP Pr2					pAMP10
L0519	NCI CGAP Pr3					pAMP10
L0520	NCI_CGAP_Alv1	alveolar				pAMP10
		rhabdomyosarcoma				•
L0521	NCI CGAP Ew1	Ewing"s sarcoma				pAMP10
L0522	NCI_CGAP_Kid1	kidney		,		pAMP10
L0523	NCI_CGAP_Lip2	liposarcoma				pAMP10
L0525	NCI_CGAP_Li2	liver				pAMP10
L0526 ·	NCI_CGAP_Pr12	metastatic prostate bone lesion		·		pAMP10
L0527	NCI_CGAP_Ov2	ovary		1		pAMP10
L0528	NCI_CGAP_Pr5	prostate				pAMP10
L0529	NCI_CGAP_Pr6	prostate				pAMP10
L0530	NCI_CGAP_Pr8	prostate				pAMP10
L0532	NCI_CGAP_Thyl	thyroid	·			pAMP10
L0533	NCI_CGAP_HSC1	stem cells	bone marrow			pAMP10
L0534	Chromosome 7 Fetal	brain	brain			pAMP10
	Brain cDNA Library		<u> </u>			
L0535	NCI_CGAP_Br5	infiltrating ductal carcinoma	breast			pAMP10
L0538	NCI_CGAP_Ov5	normal surface epithelium	ovary			pAMP10
L0539	Chromosome 7 Placental cDNA Library		placenta			pAMP10
L0541	NCI_CGAP_Pr7	low-grade prostatic neoplasia	prostate			pAMP10
L0542	NCI_CGAP_Pr11	normal prostatic epithelial cells	prostate			pAMP10
L0543	NCI_CGAP_Pr9	normal prostatic epithelial cells	prostate			pAMP10
L0544	NCI_CGAP_Pr4	prostatic intraepithelial neoplasia - high grade	prostate			pAMP10
L0545	NCI_CGAP_Pr4.1	prostatic intraepithelial neoplasia - high grade	prostate			pAMP10
L0551	NCI_CGAP_HN7	normal squamous epithelium, floor of mouth)		pAMP10
L0558	NCI_CGAP_Ov40	endometrioid ovarian metastasis	ovary			pAMP10
L0559	NCI_CGAP_Ov39	papillary serous ovarian metastasis	ovary			pAMP10
L0560	NCI_CGAP_HN12	moderate to poorly differentiated invasive carcino	tongue		*	рАМР10
L0561	NCI_CGAP_HN11	normal squamous epithelium	tongue			pAMP10
L0562	Chromosome 7 HeLa			HeLa cell		pAMP10

	cDNA Library			line; ATCC	
L0563	Human Bone Marrow Stromal Fibroblast	bone marrow	-	Aice	pBluescript
L0564	Jia bone marrow stroma	bone marrow stroma			pBluescript
L0565	Normal Human Trabecular Bone Cells	Bone	Hip		pBluescript
L0581	Stratagene liver (#937224)	-	liver		pBluescript SK
L0584	Stratagene cDNA library Human heart, cat#936208				pBluescript SK(+)
L0586	HTCDL1				pBluescript SK(-)
L0587	Stratagene colon HT29 (#937221)				pBluescript SK-
L0588	Stratagene endothelial cell 937223				pBluescript SK-
L0589	Stratagene fetal retina 937202				pBluescript SK-
L0590	Stratagene fibroblast (#937212)			·	pBluescript SK-
L0591	Stratagene HeLa cell s3 937216				pBluescript SK-
L0592	Stratagene hNT neuron (#937233)	41		*	pBluescript SK-
L0593	Stratagene neuroepithelium (#937231)				pBluescript SK-
L0594	Stratagene neuroepithelium NT2RAMI 937234		-		pBluescript SK-
L0595	Stratagene NT2 neuronal precursor 937230	neuroepithelial cells	brain		pBluescript SK-
L0596	Stratagene colon (#937204)		colon		pBluescript SK-
L0597	Stratagene comeal stroma (#937222)		соглеа		pBluescript SK-
L0598	Morton Fetal Cochlea	cochlea	ear		pBluescript SK-
L0599	Stratagene lung (#937210)		lung		pBluescript SK-
L0600	Weizmann Olfactory Epithelium	olfactory epithelium	nose		pBluescript SK-
L0601	Stratagene pancreas (#937208)	٤	pancreas	,	pBluescript SK-
L0602	Pancreatic Islet	pancreatic islet	pancreas		pBluescript SK-
L0603	Stratagene placenta (#937225)		placenta		pBluescript SK-
L0604	Stratagene muscle 937209	muscle	skeletal muscle		pBluescript SK-
L0605	Stratagene fetal spleen (#937205)	fetal spleen	spleen		pBluescript SK-
L0606	NCI_CGAP_Lym5	follicular lymphoma	lymph node		pBluescript SK-
L0607	NCI_CGAP_Lym6	mantle cell lymphoma	lymph node		pBluescript SK-
L0608	Stratagene lung carcinoma 937218	lung carcinoma	lung	NCI-H69	pBluescript SK-
L0609	Schiller astrocytoma	astrocytoma	brain		pBluescript SK- (Stratagene)
L0611	Schiller meningioma	meningioma	brain		pBluescript

			· · · · · · · · · · · · · · · · · · ·	r		CV
						SK- (Stratagene)
L0612	Schiller	oligodendroglioma	brain	 	-	pBluescript
LOUIZ	oligodendroglioma	ongodonarognoma	o.u.i.		,	SK-
						(Stratagene)
L0615	22 week old human fetal					pBluescriptII
	liver cDNA library					SK(-)
L0617	Chromosome 22 exon					pBluescriptII
			212			KS+
L0618	Chromosome 9 exon					pBluescriptII
		ļ	_ 			KS+
L0622	HMI			l	1	pcDNAII
1000		121		 		(Invitrogen)
L0623	НМ3	pectoral muscle		-		pcDNAII (Invitrogen)
L0625	NCI CGAP AR1	(after mastectomy) bulk alveolar tumor		 		pCMV-
1.0023	NCI_CGAF_ARI	oulk arveolar turnor		i		SPORT2
L0626	NCI_CGAP_GC1	bulk germ cell			 	pCMV-
10020	Nel_edal_del	seminoma			1	SPORT2
L0627	NCI_CGAP_Co1	bulk tumor	colon			pCMV-
-002/					(2)	SPORT2
L0628	NCI_CGAP_Ov1	ovary bulk tumor	ovary	- *		pCMV-
}			_			SPORT2
L0629	NCI_CGAP_Mel3	metastatic	bowel (skin			pCMV-
		melanoma to bowel	primary)			SPORT4
L0630	NCI_CGAP_CNS1	substantia nigra	brain			pCMV-
						SPORT4
L0631	NCI_CGAP_Br7		breast			pCMV-
	1202	ļ ,, ,, ,,				SPORT4
L0633	NCI_CGAP_Lu6	small cell carcinoma	lung			pCMV-
10024	NOT COAD ON			 	 	sPORT4 pCMV-
L0634	NCI_CGAP_Ov8	serous adenocarcinoma	ovary	-		SPORT4
L0635	NCI_CGAP_PNS1	dorsal root ganglion	peripheral	 		pCMV-
20033	Mongodin	dorsar root gangilon	nervous			SPORT4
			system	3.00	1	
L0636	NCI_CGAP_Pit1	four pooled pituitary	brain			pCMV-
	<u> </u>	adenomas		J		SPORT6
L0637	NCI_CGAP_Bm53	three pooled	brain	1		pCMV-
		meningiomas			30	SPORT6
L0638	NCI_CGAP_Brn35	tumor, 5 pooled (see	brain	Ī		pCMV-
		description)	<u> </u>		ļ	SPORT6
L0639	NCI_CGAP_Bm52	tumor, 5 pooled (see	brain	{	\{ .	pCMV-
10640	NOT COLD D 19	description)				SPORT6
L0640	NCI_CGAP_Br18	four pooled high-	breast	1	1	pCMV- SPORT6
	,	grade tumors, including two prima	ĺ	1		SPORIO
L0641	NCI CGAP Co17	juvenile granulosa	colon		 	pCMV-
L0041	NCI_COAI_COI7	tumor	Colon	1	ľ	SPORT6
L0642	NCI CGAP Co18	moderately	colon			pCMV-
200.2	1.101_00.11_00.10	differentiated	00.0	ĺ		SPORT6
		adenocarcinoma		1	1	
L0643	NCI_CGAP_Co19	moderately	colon			pCMV-
		differentiated]]	SPORT6
		adenocarcinoma				
L0644	NCI_CGAP_Co20	moderately	colon			pCMV-
		differentiated			1	SPORT6
		adenocarcinoma		<u> </u>		
L0645	NCI_CGAP_Co21	moderately	colon			pCMV-
		differentiated			İ	SPORT6
10212	VOLCOUR S 1	adenocarcinoma	ļ	ļ		C) (I)
L0646	NCI_CGAP_Co14	moderately-	· colon		-	pCMV-
L	1	differentiated	t	<u> </u>	<u> </u>	SPORT6

		adenocarcinoma			Γ	
L0647	NCI_CGAP_Sar4	five pooled	connective		 	pCMV-
LUU47	NCI_COAI_Sai4	sarcomas, including	tissue			SPORT6
	•	myxoid liposarcoma	ussuc		1	JI OKTO
T 0640	NOT COAD F2					pCMV-
L0648	NCI_CGAP_Eso2	squamous cell	esophagus		İ	
		carcinoma				SPORT6
L0649	NCI_CGAP_GU1	2 pooled high-grade	genitourinary		ì	pCMV-
	·	transitional cell	tract		l	SPORT6
		tumors				
L0650	NCI_CGAP_Kid13	2 pooled Wilms"	kidney		•	pCMV-
		tumors, one primary	•		ì	SPORT6
		and one metast			}	
L0651	NCI_CGAP_Kid8	renal cell tumor	kidney			pCMV-
						SPORT6
L0652	NCI_CGAP_Lu27	four pooled poorly-	lung			pCMV-
10032	NCI_COAI_Laz/	differentiated	, lang ,			SPORT6
		adenocarcinomas				SIORIO
						0) 01
L0653	NCI_CGAP_Lu28	two pooled	lung			pCMV-
	•	squamous cell	1		l	SPORT6
		carcinomas				
L0654	NCI_CGAP_Lu31		lung, cell line			pCMV-
		•				SPORT6
L0655	NCI_CGAP_Lym12	lymphoma,	lymph node			pCMV-
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		follicular mixed	J			SPORT6
	e.	small and large cell				02 03.01
L0656	NCI_CGAP_Ov38	normal epithelium	ovary			pCMV-
F0000	NCI_COAF_OVS	normai epimenum	Ovary		Į.	SPORT6
10655	NOT COAD O 22	6 1.10			ļ	
L0657	NCI_CGAP_Ov23	tumor, 5 pooled (see	ovary		l	pCMV-
		description)			ļ <u>.</u>	SPORT6
L0658	NCI_CGAP_Ov35	tumor, 5 pooled (see	ovary		l	pCMV-
		description)				SPORT6
L0659	NCI_CGAP_Pan1	adenocarcinoma	pancreas			pCMV-
						SPORT6
L0661	NCI_CGAP_Mel15	malignant	skin			pCMV-
		melanoma,			1	SPORT6
	•	metastatic to lymph				
•		node		90	1	1
L0662	NCI CGAP Gas4	poorly differentiated	stomach			pCMV-
LVVV	NOI_COAL_COST	adenocarcinoma	Storimen	\	1	SPORT6
	·					OI OICIO
7.0660	NOT COLD THE	with signet r				CD 477
L0663	NCI_CGAP_Ut2	moderately-	uterus	\	1	pCMV-
		differentiated			l	SPORT6
		endometrial			· ·	1
· · · · · · · · · · · · · · · · · · ·		adenocarcino				
L0664	NCI_CGAP_Ut3	poorly-differentiated	uterus			рСМУ-
	1	endometrial	1			SPORT6
		adenocarcinoma,	l	l		<u> </u>
L0665	NCI_CGAP_Ut4	serous papillary	uterus			pCMV-
		carcinoma, high		0	J	SPORT6
		grade, 2 pooled t				
L0666	NCI CGAP Ut1	well-differentiated	uterus		t ·	pCMV-
LUUUU	HOT CONT OU	endometrial	นเอเนอ		1	SPORT6
			1	ar.		2LOKIO
1000	Not course	adenocarcinoma, 7	 		1 2	(Date
L0667	NCI_CGAP_CML1	myeloid cells, 18	whole blood			pCMV-
	*	pooled CML cases,	·			SPORT6
		BCR/ABL rearra			<u> </u>	
L0681	Stanley Frontal SN	frontal lobe (see	brain			pCR2.1
	individual	description)				(Invitrogen)
L0684	Stanley Frontal SB pool 1	frontal lobe (see	brain			pCR2.1-
	,	description)	1		1	TOPO
	[a a a a a a a a a a a a a a a a a a a		1		(Invitrogen)
L0695	Human Glialblastoma Cell		Brain	BT-325	 	PCRII,
20073	Lanan Onatolastonia Cell		المات	1-323		Invitrogen
	1	1	E .		1	1 THAIRING REIT

L0697	Testis 1		Т		· · · · · ·	PGEM
L0097	Testis i		1	• (5zf(+)
L0698	Testis 2		<u> </u>		7,	PGEM
,						5zf(+)
L0717	Gessler Wilms tumor					pSPORT1
L0720	PN001-Normal Human Prostate		prostate			pSportI
L0731	Soares_pregnant_uterus_ NbHPU		uterus			pT7T3-Pac
L0738	Human colorectal cancer					pT7T3D
L0740	Soares melanocyte	melanocyte	 			pT7T3D
D07.10	2NbHM	1110122100310				(Pharmacia)
				,		with a
			1 1			modified
						polylinker -
L0741	Soares adult brain	•	brain	•		pT7T3D
l ,	N2b4HB55Y			•		(Pharmacia)
						with a
		•	, ,		1-	modified
			ļ			polylinker
L0742	Soares adult brain	(brain	-		pT7T3D (Pharmacia)
	N2b5HB55Y	a ·				(Pharmacia) with a
						modified
	·	•				polylinker
L0743	Soares breast 2NbHBst		breast			pT7T3D
1,0743	Soares breast ZNOFIDSt		o cast		·	(Pharmacia)
			1		1	with a
						modified
						polylinker
L0744	Soares breast 3NbHBst		breast		, , , , , , , , , , , , , , , , , , , ,	pT7T3D
ł						(Pharmacia)
	1	•				with a
					•	modified
						polylinker
L0745	Soares retina N2b4HR	retina	eye		1	pT7T3D
						(Pharmacia) with a
				•	ł	modified
						polylinker .
L0746	Soares retina N2b5HR	retina	eye			pT7T3D
20740	Cource retains 112031110	Toma	","			(Pharmacia)
					j	with a
						modified
	4		<u> </u>			polylinker
L0747	Soares_fetal_heart_NbHH		heart		1	pT7T3D
	19W		}		j .	(Pharmacia)
					1	with a
						modified
7.07.40	GC-11'		Liver and		ļ	polylinker
L0748	Soares fetal liver spleen		Liver and Spleen			pT7T3D (Pharmacia)
	INFLS		Spicen]	with a
1		7	-			modified
]	polylinker
L0749	Soares_fetal_liver_spleen		Liver and			pT7T3D
	_INFLS_SI		Spleen			(Pharmacia)
1			•			with a
l			1		-	modified
·				141		polylinker
L0750	Soares_fetal_lung_NbHL1		lung			pT7T3D
1	9W		ł ·		l .	(Pharmacia)
					ŀ	with a
	L	l			L	modified

						polylinker
L0751	Soares ovary tumor	ovarian tumor	ovary		·	pT7T3D
	NbHOT					(Pharmacia)
	, i			·		with a
	2					modified
						polylinker
L0752	Soares_parathyroid_tumor	parathyroid tumor	parathyroid			pT7T3D
	NbHPA		gland			(Pharmacia)
				,		with a
		0				modified
	-					polylinker
L0753	Soares pineal_gland_N3H		pineal gland			pT7T3D
20.00	PG		F			(Pharmacia)
		•	Ŧ	-		with a
	·			1		modified
	,		ļ			polylinker
L0754	Soares placenta Nb2HP	7	placenta			pT7T3D
Ļ0/34	Soares praceina 1402111		piacenta			(Pharmacia)
			-			with a
			}	i		modified
						polylinker
TAGES	0 1 2 2 2	<u> </u>	-1			pT7T3D
L0755	Soares_placenta_8to9wee		placenta			
	ks_2NbHP8to9W		-		•	(Pharmacia) with a
				1		
	i .					modified
				<u> </u>		polylinker
L0756	Soares_multiple_sclerosis	multiple sclerosis	ì			pT7T3D
	_2NbHMSP	lesions		1 1 3		(Pharmacia)
			1			with a
						modified
l					l	polylinker
	, _		<u> </u>			V_TYPE
L0757	Soares_senescent_fibrobla	senescent fibroblast]			pT7T3D
	sts_NbHSF				ŀ	(Pharmacia)
		· .		ļ		with a
1				}		modified
ĺ	{					polylinker
						V_TYPE
L0758	Soares testis NHT					pT7T3D-Pac
					1	(Pharmacia)
1	1		! .			with a
1				1		modified
				1		polylinker
L0759	Soares_total_fetus_Nb2H			I		pT7T3D-Pac
	F8_9w		l		l	(Pharmacia)
1	1 "	l	i	ł	ļ	with a
1	1	l.	1	ŀ	ł.	modified
		,			ľ	polylinker
L0760	Barstead aorta HPLRB3	aorta	l	1		pT7T3D-Pac
- 20/00	Darsicau aoria III Lichi	uvita	1			(Pharmacia)
			1	1	1	with a
i	1		1	i		modified
			1	1	1	polylinker
L0761	NCI_CGAP_CLL1	B-cell, chronic	 	 	 	pT7T3D-Pac
10/01	INCI_COMF_CLLI	lymphotic leukemia	1	1	l	(Pharmacia)
	j.	lymphotic leukemia	1	1	1	with a
			1			
I		}		1		modified
		ļ		 	 	polylinker
L0762	NCI_CGAP_Br1.1	breast			ŀ	pT7T3D-Pac
ł	1		1	}	l	(Pharmacia)
	1	1	1		ĺ	with a
]		}	1 .	ļ	1	modified
l.	.[l		L	polylinker
L0763	NCI_CGAP_Br2	breast				pT7T3D-Pac

			r	÷		(D) amoraia)
						(Pharmacia) with a
						modified
		•				polylinker
10764	NGL CCAD Co2	colon				pT7T3D-Pac
L0764	NCI_CGAP_Co3	COION	,			(Pharmacia)
l	8			-		with a
		*				modified
1			i			polylinker
L0765	MCL CCAD C-4	colon				pT7T3D-Pac
LU/03	NCI_CGAP_Co4	Colon		•		(Pharmacia)
						with a
1						modified
1		•	·	·		polylinker
L0766	NCI_CGAP_GCB1	germinal center B			<u> </u>	pT7T3D-Pac
10700	NCI_COAI_COBI	cell		\:		(Pharmacia)
		cen				with a
ł						modified
		·				polylinker
L0767	NCI_CGAP_GC3	pooled germ cell		ļ		pT7T3D-Pac
LUIGI	NCI_COAF_GCS	tumors			•	(Pharmacia)
		iumois				with a
}	1		,			modified
	! ·					polylinker
L0768	NCI_CGAP_GC4	pooled germ cell		} 		pT7T3D-Pac
LU708	NCI_COAI_COA	tumors		\		(Pharmacia)
Ì		tunos	([with a
]	· ·]	modified
		•			[·	polylinker
L0769	NCI_CGAP_Brn25	anaplastic	brain			pT7T3D-Pac
20,05	eee.mb	oligodendroglioma	,			(Pharmacia)
	·		· ·	1		with a
				·		modified
		x			İ	polylinker
L0770	NCI CGAP Bm23	glioblastoma	brain			pT7T3D-Pac
	- ;-	(pooled)		ļ	}	(Pharmacia)
l' '		. "				with a
						modified
						polylinker
L0771	NCI_CGAP_Co8	adenocarcinoma	colon			pT7T3D-Pac
		·		[(Pharmacia)
				7.0	•	with a
İ		·		1	l	modified
				<u></u>	<u></u>	polylinker
L0772	NCI_CGAP_Co10	colon tumor RER+	colon			pT7T3D-Pac
	ŀ	1			1	(Pharmacia)
		, .			[·	with a
1		(·	1		1	modified
<u></u>	<u> </u>	<u> </u>				polylinker
L0773	NCI_CGAP_Co9	colon tumor RER+	colon		l	pT7T3D-Pac
1			1	}		(Pharmacia)
			l .			with a
8					1	modified
7.000			 	<u> </u>		polylinker
L0774	NCI_CGAP_Kid3	ł	kidney	1	1	pT7T3D-Pac
1			1	}	1	(Pharmacia)
		1	i	{	4	with a
	·]]]	modified
\	100 00 15 10 15		 	ļ	ļ	polylinker
L0775	NCI_CGAP_Kid5	2 pooled tumors	kidney			pT7T3D-Pac
		(clear cell type)			ļ	(Pharmacia)
1 :			1	1	l	with a
1						modified
L		1	L		<u> </u>	polylinker

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1.0226	NCI_CGAP_Lu5	1	less -			=Transi Des
L0776	NCI_CGAP_Lus	carcinoid	lung	•		pT7T3D-Pac
- 00					9.	(Pharmacia)
1				•		with a
	- 4					modified
						polylinker
L0777	Soares_NhHMPu_S1	Pooled human	mixed (see			pT7T3D-Pac
ł.		melanocyte, fetal	below)			(Pharmacia)
		heart, and pregnant				with a
		, ,		ĵ.	7 3	modified
						polylinker
L0778	Barstead pancreas		pancreas			pT7T3D-Pac
	HPLRB1		P-10.0-			(Pharmacia)
1 -	III DIOI					with a
1			-0)			modified
						polylinker
1.0770	Soares NFL T GBC S1		pooled			
L0779	203162 NLT 1 GDC 21		pooled	_	·	pT7T3D-Pac
,	N - 32 N			- 2-		(Pharmacia)
1			÷ /,		-	with a
						modified
					loc.	polylinker
L0780	Soares_NSF_F8_9W_OT		pooled			pT7T3D-Pac
	_PA_P_S1					(Pharmacia)
		*	91			with a
		. ,				modified
						polylinker
L0782	NCI_CGAP_Pr21	normal prostate	prostate			pT7T3D-Pac
ľ				*		(Pharmacia)
-5			• .	. 6	· ·	with a
1		•	•		ļ	modified
						polylinker
L0783	NCI CGAP Pr22	normal prostate	prostate			pT7T3D-Pac
1			•		f	(Pharmacia)
		50			[with a
1			- 1			modified
1			,			. polylinker
L0784	NCI_CGAP_Lei2	leiomyosarcoma	soft tissue			pT7T3D-Pac
						(Pharmacia)
		•	7.		-	with a
	(c)			+		modified
-		•			* /	polylinker
L0785	Barstead spleen HPLRB2		spleen		- 7	pT7T3D-Pac
20,03	Dailyload opiour III Except		оргоси	,		(Pharmacia)
1	.00	·			1	with a
1					-	modified
		9]	polylinker
L0786	Soares_NbHFB	1	whole brain			pT7T3D-Pac
20,00	Comes_Holling		Whole orani			(Pharmacia)
		- "				with a
		*	` ,		-	modified
						polylinker
L0787	NCI CGAP Sub1					pT7T3D-Pac
TO 191	INCI_COAP_SUDI		*		}	(Pharmacia)
			,		ł	with a
		,				modified
		•			1	polylinker
1.0000	NOL COAR CIT	- 1				
L0788	NCI_CGAP_Sub2				,	pT7T3D-Pac
		, :				(Pharmacia)
		•	•			with a
					1	modified
		ere the terms of t				polylinker
L0789	NCI_CGAP_Sub3		,			pT7T3D-Pac
						(Pharmacia)
].					}	with a
i .	<u> </u>				1	modified

						
	3.00	<u> </u>	ļ			polylinker
L0790	NCI_CGAP_Sub4	·				pT7T3D-Pac
**			•		-	(Pharmacia) with a
						modified
			•			polylinker
L0791	NCI CGAP_Sub5					pT7T3D-Pac
L0/91	MCI_COMF_2003					(Pharmacia)
	·					with a
		•	oy o			modified
						polylinker
L0792	NCI CGAP Sub6					pT7T3D-Pac
					1	(Pharmacia)
	•	*			l i	with a
	· ·		•	ľ		modified
						polylinker
L0793	NCI_CGAP_Sub7					pT7T3D-Pac
				}	•	(Pharmacia)
			· ·			with a
	•	<u>0</u> .			į į	modified
						polylinker
L0794	NCI_CGAP_GC6	pooled germ cell				pT7T3D-Pac
		tumors				(Pharmacia) with a
}		•				modified
	·		•]	polylinker
L0796	NCI CGAP Brn50	medulloblastoma	brain		 	pT7T3D-Pac
LUIJU	Nei_com_biliso	modunoolastoma	Ordin	,	į	(Pharmacia)
						with a
	,		(7)		}	modified
				\		polylinker
L0800	NCI_CGAP_Co16	colon tumor, RER+	colon			pT7T3D-Pac
						(Pharmacia)
	•)	}	with a
				·	}	modified
						polylinker
L0803	NCI_CGAP_Kid11	-	kidney	ł	į	pT7T3D-Pac
	· ·				1	(Pharmacia) with a
			,			modified
	(1		polylinker
L0804	NCI_CGAP_Kid12	2 pooled tumors	kidney			pT7T3D-Pac
LUGUT	Noi_coru_Ridiz	(clear cell type)	, adilo)	ļ	ļ	(Pharmacia)
		. (0.0 00 1, 1, 10)		ł		with a
	i i			1	1	modified
						polylinker
L0805	NCI_CGAP_Lu24	carcinoid	lung			pT7T3D-Pac
•						(Pharmacia)
		ľ		[ł	with a
	i .	i ·				modified
10000	NOT COLD TO	ļ	 		ļ	polylinker
L0806	NCI_CGAP_Lu19	squamous cell	lung	[-32	pT7T3D-Pac
		carcinoma, poorly differentiated (4		{	1	(Pharmacia) with a
		amerennatea (4		1	}	modified
						polylinker
L0807	NCI_CGAP_Ov18	fibrotheoma	ovary	 	 	pT7T3D-Pac
20007	1101_00/11_0410	11010tilQ011ta	(Crary	[{	(Pharmacia)
			1	1	1	with a
		j	}		1	modified
			1.			polylinker
L0808	Barstead prostate BPH		prostate	[T	pT7T3D-Pac
	HPLRB4 1				ł	(Pharmacia)
l			}	İ	L	with a

					modified polylinker
L0809	NCI_CGAP_Pr28		prostate		pT7T3D-Pac (Pharmacia) with a modified polylinker
L2242	subtracted 3" EST library		pancreas	AsPC- 1(ATCC: CRL- 1682)	pUC18
L2251	Human fetal lung	Fetal lung			

TABLE 5

OMIM	Description
Reference	
100710	Myasthenic syndrome, slow-channel congenital, 601462
103050	Autism, succinylpurinemic
103050	Adenylosuccinase deficiency
104770	Amyloidosis, secondary, susceptibility to
106165	Hypertension, essential, 145500
107280	Cerebrovascular disease, occlusive
107280	Alpha-1-antichymotrypsin deficiency
107300	Antithrombin III deficiency
107400	Emphysema
107400	Emphysema-cirrhosis
107670	Apolipoprotein A-II deficiency
107777	Diabetes insipidus, nephrogenic, autosomal recessive, 222000
108725	Atherosclerosis, susceptibility to
109690	Asthma, nocturnal, susceptibility to
109690	Obesity, susceptibility to
110700	Vivax malaria, susceptibility to
113721	Breast cancer
113900	Heart block, progressive familial, type I
114208	Malignant hyperthermia susceptibility 5, 601887
114208	Hypokalemic periodic paralysis, 170400
116806	Colorectal cancer
117700	[Hypoceruloplasminemia, hereditary]
117700	Hemosiderosis, systemic, due to aceruloplasminemia
119300	van der Woude syndrome
120120	Epidermolysis bullosa dystrophica, dominant, 131750
120120	Epidermolysis bullosa dystrophica, recessive, 226600
120120	Epidermolysis bullosa, pretibial, 131850
120260	Epiphyseal dysplasia, multiple, type 2, 600204
120436	Muir-Torre family cancer syndrome, 158320
120436	Turcot syndrome with glioblastoma, 276300
120436	Colorectal cancer, hereditary nonpolyposis, type 2
120620	SLE susceptibility
120620	CR1 deficiency
120700	C3 deficiency
120920	Measles, susceptibility to
120950	C8 deficiency, type I
120960	C8 deficiency, type II
122500	[Transcortin deficiency]
123101	Craniosynostosis, type 2
123829	Melanoma
123940	White sponge nevus, 193900

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139350 Keratoderma, palmoplantar, nonepidermolytic 141750 Alpha-thalassemia/mental retardation syndrome, type 1 141800 Methemoglobinemias, alpha- 141800 Thalassemias, alpha- 141800 Erythremias, alpha- 141800 Heinz body anemias, alpha- 141850 Thalassemia, alpha- 141850 Erythrocytosis 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	138981	Pulmonary alveolar proteinosis, 265120
141750Alpha-thalassemia/mental retardation syndrome, type 1141800Methemoglobinemias, alpha-141800Thalassemias, alpha-141800Heinz body anemias, alpha-141850Thalassemia, alpha-141850Erythrocytosis141850Heinz body anemia141850Hemoglobin H disease141850Hypochromic microcytic anemia14501Hyperparathyroidism-jaw tumor syndrome145001Hyperparathyroidism-jaw tumor syndrome145260Pseudohypoaldosteronism, type II145981Hypocalciuric hypercalcemia, type II146790Lupus nephritis, susceptibility to147141Leukemia, acute lymphoblastic147570Interferon, immune, deficiency147680Severe combined immunodeficiency due to IL2 deficiency	139350	Epidermolytic hyperkeratosis, 113800
141800 Methemoglobinemias, alpha- 141800 Thalassemias, alpha- 141800 Erythremias, alpha- 141800 Heinz body anemias, alpha- 141850 Thalassemia, alpha- 141850 Erythrocytosis 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 14500 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	139350	Keratoderma, palmoplantar, nonepidermolytic
141800 Erythremias, alpha- 141800 Heinz body anemias, alpha- 141850 Thalassemia, alpha- 141850 Erythrocytosis 141850 Heinz body anemia 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141750	Alpha-thalassemia/mental retardation syndrome, type 1
141800 Heinz body anemias, alpha- 141850 Thalassemia, alpha- 141850 Erythrocytosis 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141800	Methemoglobinemias, alpha-
141850 Heinz body anemias, alpha- 141850 Erythrocytosis 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141800	Thalassemias, alpha-
141850 Erythrocytosis 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141800	Erythremias, alpha-
141850 Erythrocytosis 141850 Heinz body anemia 141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141800	Heinz body anemias, alpha-
141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141850	
141850 Hemoglobin H disease 141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141850	Erythrocytosis
141850 Hypochromic microcytic anemia 145001 Hyperparathyroidism-jaw tumor syndrome 145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141850	Heinz body anemia
145001Hyperparathyroidism-jaw tumor syndrome145260Pseudohypoaldosteronism, type II145981Hypocalciuric hypercalcemia, type II146790Lupus nephritis, susceptibility to147141Leukemia, acute lymphoblastic147570Interferon, immune, deficiency147680Severe combined immunodeficiency due to IL2 deficiency	141850	Hemoglobin H disease
145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	141850	Hypochromic microcytic anemia
145260 Pseudohypoaldosteronism, type II 145981 Hypocalciuric hypercalcemia, type II 146790 Lupus nephritis, susceptibility to 147141 Leukemia, acute lymphoblastic 147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	145001	Hyperparathyroidism-jaw tumor syndrome
146790Lupus nephritis, susceptibility to147141Leukemia, acute lymphoblastic147570Interferon, immune, deficiency147680Severe combined immunodeficiency due to IL2 deficiency	145260	
146790Lupus nephritis, susceptibility to147141Leukemia, acute lymphoblastic147570Interferon, immune, deficiency147680Severe combined immunodeficiency due to IL2 deficiency	145981	Hypocalciuric hypercalcemia, type II
147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	146790	
147570 Interferon, immune, deficiency 147680 Severe combined immunodeficiency due to IL2 deficiency	147141	Leukemia, acute lymphoblastic
147680 Severe combined immunodeficiency due to IL2 deficiency	147570	
	147680	
	147730	

147781	Atopy, susceptibility to
148040	Epidermolysis bullosa simplex, Koebner, Dowling-Meara, and Weber-
	Cockayne types, 131900, 131760, 131800
148041	Pachyonychia congenita, Jadassohn-Lewandowsky type, 167200
148043	Meesmann corneal dystrophy, 122100
148070	Liver disease, susceptibility to, from hepatotoxins or viruses
150210	Lactoferrin-deficient neutrophils, 245480
150292	Epidermolysis bullosa, Herlitz junctional type, 226700
150310	Epidermolysis bullosa, Herlitz junctional type, 226700
150310	Epidermolysis bullosa, generalized atrophic benign, 226650
152445	Vohwinkel syndrome, 124500
152445	Erythrokeratoderma, progressive symmetric, 602036
156850	Cataract, congenital, with microphthalmia
157640	PEO with mitochondrial DNA deletions, type 1
159001	Muscular dystrophy, limb-girdle, type 1B
159440	Charcot-Marie-Tooth neuropathy-1B, 118200
159440	Dejerine-Sottas disease, myelin P-related, 145900
159440	Hypomyelination, congenital
160900	Myotonic dystrophy
164040	Leukemia, acute promyelocytic, NPM/RARA type
164953	Liposarcoma
168360	Paraneoplastic sensory neuropathy
168468	Metaphyseal chondrodysplasia, Murk Jansen type, 156400
169600	Hailey-Hailey disease
171760	Hypophosphatasia, adult, 146300
171760	Hypophosphatasia, infantile, 241500
172471	Glycogenosis, hepatic, autosomal
173610	Platelet alpha/delta storage pool deficiency
173850	Polio, susceptibility to
174000	Medullary cystic kidney disease, AD
174900	Polyposis, juvenile intestinal
176100	Porphyria cutanea tarda
176100	Porphyria, hepatoerythropoietic
178300	Ptosis, hereditary congenital, 1
179755	Renal cell carcinoma, papillary, 1
179820	[Hyperproreninemia]
180071	Retinitis pigmentosa, autosomal recessive
180250	Retinol binding protein, deficiency of
180380	Night blindness, congenital stationery, rhodopsin-related
180380	Retinitis pigmentosa, autosomal recessive
180380	Retinitis pigmentosa-4, autosomal dominant
181430	Scapuloperoneal syndrome, myopathic type
182280	Small-cell cancer of lung
182380	Glucose/galactose malabsorption
182381	Renal glucosuria, 253100
182860	Pyropoikilocytosis

192960	Cal and out to right monographs
182860	Spherocytosis, recessive
182860	Elliptocytosis-2
186580	Arthrocutaneouveal granulomatosis
186770	Leukemia, T-cell acute lymphocytic
186780	CD3, zeta chain, deficiency
186960	Leukemia/lymphoma, T-cell
187040	Leukemia-1, T-cell acute lymphoblastic
188070	Bleeding disorder due to defective thromboxane A2 receptor
188550	Thyroid papillary carcinoma
188826	Sorsby fundus dystrophy, 136900
189800	Preeclampsia/eclampsia
190000	Atransferrinemia
190040	Dermatofibrosarcoma protuberans
190040	Giant-cell fibroblastoma
190040	Meningioma, SIS-related
190182	Colon cancer
190182	Colorectal cancer, familial nonpolyposis, type 6
191030	Nemaline myopathy-1, 161800
191044	Cardiomyopathy, familial hypertrophic
191045	Cardiomyopathy, familial hypertrophic, 2, 115195
191092	Tuberous sclerosis-2
191315	Insensitivity to pain, congenital, with anhidrosis, 256800
192340	Diabetes insipidus, neurohypophyseal, 125700
203500	Alkaptonuria
208100	Arthrogryposis multiplex congenita, neurogenic
208250	Jacobs syndrome
217030	C3b inactivator deficiency
222900	Sucrose intolerance
227646	Fanconi anemia, type D
230000	Fucosidosis
230800	Gaucher disease
230800	Gaucher disease with cardiovascular calcification
231200	Bernard-Soulier syndrome
231550	Achalasia-addisonianism-alacrimia syndrome
232050	Propionicacidemia, type II or pccB type
233710	Chronic granulomatous disease due to deficiency of NCF-2
234200	Neurodegeneration with brain iron accumulation
236730	Urofacial syndrome
245200	Krabbe disease
246450	HMG-CoA lyase deficiency
246530	Leukotriene C4 synthase deficiency
247200	Miller-Dieker lissencephaly syndrome
248510	Mannosidosis, beta-
250100	Metachromatic leukodystrophy
250800	Methemoglobinemia, type I
250800	Methemoglobinemia, type II
230000	Mememogroomema, type n

252940	Sanfilippo syndrome, type D
254210	Myasthenia gravis, familial infantile
255800	Schwartz-Jampel syndrome
256540	Galactosialidosis
258501	3-methylglutaconicaciduria, type III
261510	Pseudo-Zellweger syndrome
262850	Plasmin inhibitor deficiency
264700	Pseudo-vitamin D dependency rickets 1
266200	Anemia, hemolytic, due to PK deficiency
271245	Spinocerebellar ataxia-8, infantile, with sensory neuropathy
271900	Canavan disease
276901	Usher syndrome, type 2
276902	Usher syndrome, type 3
278000	Wolman disease
278000	Cholesteryl ester storage disease
300008	Nephrolithiasis, type I, 310468
300008	Proteinuria, low molecular weight, with hypercalciuric
300000	nephrocalcinosis
300008	Dent disease, 300009
300008	Hypophosphatemia, type III
300047	Mental retardation, X-linked 20
301000	Thrombocytopenia, X-linked, 313900
301000	Wiskott-Aldrich syndrome
301220	Partington syndrome II
301300	Anemia, sideroblastic/hypochromic
301830	Arthrogryposis, X-linked (spinal muscular atrophy, infantile, X-
501050	linked)
302350	Nance-Horan syndrome
305400	Aarskog-Scott syndrome
306400	Chronic granulomatous disease, X-linked
308300	Incontinentia pigmenti, sporadic type
309470	Mental retardation, X-linked, syndromic-3, with spastic diplegia
309500	Renpenning syndrome-1
309585	Mental retardation, X-linked, syndromic-6, with gynecomastia and
	obesity
309610	Mental retardation, X-linked, syndromic-2, with dysmorphism and
	cerebral atrophy
311050	Optic atrophy, X-linked
311250	Ornithine transcarbamylase deficiency
312040	N syndrome, 310465
312610	Retinitis pigmentosa-3
314850	McLeod phenotype
600040	Colorectal cancer
600059	Retinitis pigmentosa-13
600095	Split hand/foot malformation, type 3
600101	Deafness, autosomal dominant 2
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600105	Retinitis pigmentosa-12, autosomal recessive
600138	Retinitis pigmentosa-11
600140	Rubenstein-Taybi syndrome, 180849
600163	Long QT syndrome-3
600179	Leber congenital amaurosis, type I, 204000
600194	Ichthyosis bullosa of Siemens, 146800
600231	Palmoplantar keratoderma, Bothnia type
600273	Polycystic kidney disease, infantile severe, with tuberous sclerosis
600281	Non-insulin-dependent diabetes mellitus, 125853
600281	MODY, type 1, 125850
600332	Rippling muscle disease-1
600334	Tibial muscular dystrophy
600511	Schizophrenia-3
600512	Epilepsy, partial
600536	Myopathy, congenital
600584	Atrial septal defect with atrioventricular conduction defects, 108900
600650	Myopathy due to CPT II deficiency, 255110
600650	CPT deficiency, hepatic, type II, 600649
600722	Ceroid lipofuscinosis, neuronal, variant juvenile type, with granular
000722	osmiophilic deposits
600722	Ceroid lipofuscinosis, neuronal-1, infantile, 256730
600759	Alzheimer disease-4
600808	Enuresis, nocturnal, 2
600835	AIDS, resistance to
600882	Charcot-Marie-Tooth neuropathy-2B
600897	Cataract, zonular pulverulent-1, 116200
600919	Long QT syndrome-4 with sinus bradycardia
600923	Porphyria variegata, 176200
600956	Persistent Mullerian duct syndrome, type II, 261550
600957	Persistent Mullerian duct syndrome, type I, 261550
600977	Cone dystrophy, progressive
600995	Nephrotic syndrome, idiopathic, steroid-resistant
601105	Pycnodysostosis, 265800
601107	Dubin-Johnson syndrome, 237500
601130	Tolbutamide poor metabolizer
601154	Cardiomyopathy, dilated, 1E
601199	Neonatal hyperparathyroidism, 239200
601199	Hypocalcemia, autosomal dominant, 601198
601199	Hypocalciuric hypercalcemia, type I, 145980
601202	Cataract, anterior polar-2
601238	Cerebellar ataxia, Cayman type
601284	Hereditary hemorrhagic telangiectasia-2, 600376
601313	Polycystic kidney disease, adult type I, 173900
601412	Deafness, autosomal dominant 7
601471	Moebius syndrome-2
601494	Cardiomyopathy, familial, dilated-2

601518	Prostate cancer, hereditary, 1, 176807
601542	Rieger syndrome, type 1, 180500
601545	Lissencephaly-1
601556	Spinocerebellar ataxia-1, 164400
601652	Glaucoma 1A, primary open angle, juvenile-onset, 137750
601682	Glaucoma 1C, primary open angle
601744	Systemic lupus erythematosus, susceptibility to, 1
601769	Osteoporosis, involutional
601769	Rickets, vitamin D-resistant, 277440
601777	Cone dystrophy, progressive
601785	Carbohydrate-deficient glycoprotein syndrome, type I, 212065
601841	Protein C inhibitor deficiency
601846	Muscular dystrophy with rimmed vacuoles
601928	Monilethrix, 158000
601975	Ectodermal dysplasia/skin fragility syndrome
602014	Hypomagnesemia with secondary hypocalcemia
602082	Corneal dystrophy, Thiel-Behnke type
602116	Glioma
602153	Monilethrix, 158000
602216	Peutz-Jeghers syndrome, 175200
602225	Cone-rod retinal dystrophy-2, 120970
602225	Leber congenital amaurosis, type III
602477	Febrile convulsions, familial, 2
602491	Hyperlipidemia, familial combined, 1

Polynucleotide and Polypeptide Variants

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[89] The present invention is directed to variants of the polynucleotide sequence disclosed in SEQ ID NO:X or the complementary strand thereto, nucleotide sequences encoding the polypeptide of SEQ ID NO:Y, the nucleotide sequence of SEQ ID NO:X encoding the polypeptide sequence as defined in column 7 of Table 1A, nucleotide sequences encoding the polypeptide as defined in column 7 of Table 1A, the nucleotide sequence as defined in columns 8 and 9 of Table 2, nucleotide sequences encoding the polypeptide encoded by the nucleotide sequence as defined in columns 8 and 9 of Table 2, the nucleotide sequence as defined in column 6 of Table 1B, nucleotide sequences encoding the polypeptide encoded by the nucleotide sequence as defined in column 6 of Table 1B, the cDNA sequence contained in Clone ID NO:Z, and/or nucleotide sequences encoding the polypeptide encoded by the cDNA sequence contained in Clone ID NO:Z.

- [90] The present invention also encompasses variants of the polypeptide sequence disclosed in SEQ ID NO:Y, the polypeptide sequence as defined in column 7 of Table 1A, a polypeptide sequence encoded by the polynucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the nucleotide sequence as defined in columns 8 and 9 of Table 2, a polypeptide sequence encoded by the nucleotide sequence as defined in column 6 of Table 1B, a polypeptide sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, and/or a polypeptide sequence encoded by the cDNA sequence contained in Clone ID NO:Z.
- [91] "Variant" refers to a polynucleotide or polypeptide differing from the polynucleotide or polypeptide of the present invention, but retaining essential properties thereof. Generally, variants are overall closely similar, and, in many regions, identical to the polynucleotide or polypeptide of the present invention.
- Thus, one aspect of the invention provides an isolated nucleic acid molecule comprising, or alternatively consisting of, a polynucleotide having a nucleotide sequence selected from the group consisting of: (a) a nucleotide sequence described in SEQ ID NO:X or contained in the cDNA sequence of Clone ID NO:Z; (b) a nucleotide sequence in SEQ ID NO:X or the cDNA in Clone ID NO:Z which encodes the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (c) a nucleotide sequence in SEQ ID NO:X or the cDNA in Clone ID NO:Z which encodes a mature polypeptide; (d) a nucleotide sequence in SEQ ID NO:X or the cDNA sequence of Clone ID NO:Z, which encodes a biologically active fragment of a polypeptide;

(e) a nucleotide sequence in SEQ ID NO:X or the cDNA sequence of Clone ID NO:Z, which encodes an antigenic fragment of a polypeptide; (f) a nucleotide sequence encoding a polypeptide comprising the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (g) a nucleotide sequence encoding a mature polypeptide of the amino acid sequence of SEQ ID NO:Y or the amino acid sequence encoded by the cDNA in Clone ID NO:Z; (h) a nucleotide sequence encoding a biologically active fragment of a polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (i) a nucleotide sequence encoding an antigenic fragment of a polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; and (j) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), (h), or (i) above.

The present invention is also directed to nucleic acid molecules which comprise, [93] or alternatively consist of, a nucleotide sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100%, identical to, for example, any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), (h), (i), or (j) above, the nucleotide coding sequence in SEQ ID NO:X or the complementary strand thereto, the nucleotide coding sequence of the cDNA contained in Clone ID NO:Z or the complementary strand thereto, a nucleotide sequence encoding the polypeptide of SEQ ID NO:Y, a nucleotide sequence encoding a polypeptide sequence encoded by the nucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, a nucleotide sequence encoding the polypeptide encoded by the cDNA contained in Clone ID NO:Z, the nucleotide coding sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto, a nucleotide sequence encoding the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto, the nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complementary strand thereto, a nucleotide sequence encoding the polypeptide encoded by the nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complementary strand thereto, the nucleotide sequence in SEQ ID NO:X encoding the polypeptide sequence as defined in column 7 of Table 1A or the complementary strand thereto, nucleotide sequences encoding the polypeptide as defined in column 7 of Table 1A or the complementary strand thereto,

and/or polynucleotide fragments of any of these nucleic acid molecules (e.g., those fragments described herein). Polynucleotides which hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides and nucleic acids.

- [94] In a preferred embodiment, the invention encompasses nucleic acid molecules which comprise, or alternatively, consist of a polynucleotide which hybridizes under stringent hybridization conditions, or alternatively, under lower stringency conditions, to a polynucleotide in (a), (b), (c), (d), (e), (f), (g), (h), or (i), above, as are polypeptides encoded by these polynucleotides. In another preferred embodiment, polynucleotides which hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions, or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.
- In another embodiment, the invention provides a purified protein comprising, or alternatively consisting of, a polypeptide having an amino acid sequence selected from the group consisting of: (a) the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (b) the amino acid sequence of a mature form of a polypeptide having the amino acid sequence of SEQ ID NO:Y or the amino acid sequence encoded by the cDNA in Clone ID NO:Z; (c) the amino acid sequence of a biologically active fragment of a polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; and (d) the amino acid sequence of an antigenic fragment of a polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Y.

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The present invention is also directed to proteins which comprise, or alternatively consist of, an amino acid sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100%, identical to, for example, any of the amino acid sequences in (a), (b), (c), or (d), above, the amino acid sequence shown in SEQ ID NO:Y, the amino acid sequence encoded by the cDNA contained in Clone ID NO:Z, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B, the amino acid sequence as defined in column 7 of Table 1A, an amino acid sequence encoded by the nucleotide

sequence in SEQ ID NO:X, and an amino acid sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X. Fragments of these polypeptides are also provided (e.g., those fragments described herein). Further proteins encoded by polynucleotides which hybridize to the complement of the nucleic acid molecules encoding these amino acid sequences under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are the polynucleotides encoding these proteins.

"identical" to a reference nucleotide sequence of the present invention, it is intended that the nucleotide sequence of the nucleic acid is identical to the reference sequence except that the nucleotide sequence may include up to five point mutations per each 100 nucleotides of the reference nucleotide sequence encoding the polypeptide. In other words, to obtain a nucleic acid having a nucleotide sequence at least 95% identical to a reference nucleotide sequence, up to 5% of the nucleotides in the reference sequence may be deleted or substituted with another nucleotide, or a number of nucleotides up to 5% of the total nucleotides in the reference sequence may be inserted into the reference sequence. The query sequence may be an entire sequence referred to in Table 1A or 2 as the ORF (open reading frame), or any fragment specified as described herein.

As a practical matter, whether any particular nucleic acid molecule or polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a nucleotide sequence of the present invention can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci. 6:237-245 (1990)). In a sequence alignment the query and subject sequences are both DNA sequences. An RNA sequence can be compared by converting U's to T's. The result of said global sequence alignment is expressed as percent identity. Preferred parameters used in a FASTDB alignment of DNA sequences to calculate percent identity are: Matrix=Unitary, k-tuple=4, Mismatch Penalty=1, Joining Penalty=30, Randomization Group Length=0, Cutoff Score=1, Gap Penalty=5, Gap Size Penalty 0.05, Window Size=500 or the length of the subject nucleotide sequence, whichever is shorter.

[99] If the subject sequence is shorter than the query sequence because of 5' or 3'

deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for 5' and 3' truncations of the subject sequence when calculating percent identity. For subject sequences truncated at the 5' or 3' ends, relative to the query sequence, the percent identity is corrected by calculating the number of bases of the query sequence that are 5' and 3' of the subject sequence, which are not matched/aligned, as a percent of the total bases of the query sequence. Whether a nucleotide is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This corrected score is what is used for the purposes of the present invention. Only bases outside the 5' and 3' bases of the subject sequence, as displayed by the FASTDB alignment, which are not matched/aligned with the query sequence, are calculated for the purposes of manually adjusting the percent identity score.

[100] For example, a 90 base subject sequence is aligned to a 100 base query sequence to determine percent identity. The deletions occur at the 5' end of the subject sequence and therefore, the FASTDB alignment does not show a matched/alignment of the first 10 bases at 5' end. The 10 unpaired bases represent 10% of the sequence (number of bases at the 5' and 3' ends not matched/total number of bases in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 bases were perfectly matched the final percent identity would be 90%. In another example, a 90 base subject sequence is compared with a 100 base query sequence. This time the deletions are internal deletions so that there are no bases on the 5' or 3' of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only bases 5' and 3' of the subject sequence which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to be made for the purposes of the present invention.

[101] By a polypeptide having an amino acid sequence at least, for example, 95% "identical" to a query amino acid sequence of the present invention, it is intended that the amino acid sequence of the subject polypeptide is identical to the query sequence except that the subject polypeptide sequence may include up to five amino acid alterations per each 100 amino acids of the query amino acid sequence. In other words, to obtain a polypeptide having an amino acid sequence at least 95% identical to a query amino acid sequence, up to

5% of the amino acid residues in the subject sequence may be inserted, deleted, (indels) or substituted with another amino acid. These alterations of the reference sequence may occur at the amino or carboxy terminal positions of the reference amino acid sequence or anywhere between those terminal positions, interspersed either individually among residues in the reference sequence or in one or more contiguous groups within the reference sequence.

As a practical matter, whether any particular polypeptide is at least 80%, 85%, [102] 90%, 95%, 96%, 97%, 98% or 99% identical to, for instance, the amino acid sequence of a polypeptide referred to in Table 1A (e.g., the amino acid sequence identified in column 6) or Table 2 (e.g., the amino acid sequence of the polypeptide encoded by the polynucleotide sequence defined in columns 8 and 9 of Table 2) or a fragment thereof, the amino acid sequence of the polypeptide encoded by the polynucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or a fragment thereof, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X or a fragment thereof, or the amino acid sequence of the polypeptide encoded by cDNA contained in Clone ID NO:Z, or a fragment thereof, can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci.6:237-245 (1990)). In a sequence alignment the query and subject sequences are either both nucleotide sequences or both amino acid sequences. The result of said global sequence alignment is expressed as percent identity. Preferred parameters used in a FASTDB amino acid alignment are: Matrix=PAM 0, k-tuple=2, Mismatch Penalty=1, Joining Penalty=20, Randomization Group Length=0, Cutoff Score=1, Window Size=sequence length, Gap Penalty=5, Gap Size Penalty=0.05, Window Size=500 or the length of the subject amino acid sequence, whichever is shorter.

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[103] If the subject sequence is shorter than the query sequence due to N- or C-terminal deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for N- and C-terminal truncations of the subject sequence when calculating global percent identity. For subject sequences truncated at the N- and C-termini, relative to the query sequence, the percent identity is corrected by calculating the number of residues of the query sequence that are N- and C-terminal of the subject sequence, which are not matched/aligned with a corresponding

subject residue, as a percent of the total bases of the query sequence. Whether a residue is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This final percent identity score is what is used for the purposes of the present invention. Only residues to the N- and C-termini of the subject sequence, which are not matched/aligned with the query sequence, are considered for the purposes of manually adjusting the percent identity score. That is, only query residue positions outside the farthest N- and C- terminal residues of the subject sequence.

[104] For example, a 90 amino acid residue subject sequence is aligned with a 100 residue query sequence to determine percent identity. The deletion occurs at the Nterminus of the subject sequence and therefore, the FASTDB alignment does not show a matching/alignment of the first 10 residues at the N-terminus. The 10 unpaired residues represent 10% of the sequence (number of residues at the N- and C- termini not matched/total number of residues in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 residues were perfectly matched the final percent identity would be 90%. In another example, a 90 residue subject sequence is compared with a 100 residue query sequence. This time the deletions are internal deletions so there are no residues at the N- or C-termini of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only residue positions outside the N- and C-terminal ends of the subject sequence, as displayed in the FASTDB alignment, which are not matched/aligned with the query sequnce are manually corrected for. No other manual corrections are to made for the purposes of the present invention.

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[105] The polynucleotide variants of the invention may contain alterations in the coding regions, non-coding regions, or both. Especially preferred are polynucleotide variants containing alterations which produce silent substitutions, additions, or deletions, but do not alter the properties or activities of the encoded polypeptide. Nucleotide variants produced by silent substitutions due to the degeneracy of the genetic code are preferred. Moreover, polypeptide variants in which less than 50, less than 40, less than 30, less than 20, less than 10, or 5-50, 5-25, 5-10, 1-5, or 1-2 amino acids are substituted, deleted, or added in any combination are also preferred. Polynucleotide variants can be produced for a

variety of reasons, e.g., to optimize codon expression for a particular host (change codons in the human mRNA to those preferred by a bacterial host such as E. coli).

[106] Naturally occurring variants are called "allelic variants," and refer to one of several alternate forms of a gene occupying a given locus on a chromosome of an organism. (Genes II, Lewin, B., ed., John Wiley & Sons, New York (1985)). These allelic variants can vary at either the polynucleotide and/or polypeptide level and are included in the present invention. Alternatively, non-naturally occurring variants may be produced by mutagenesis techniques or by direct synthesis.

Using known methods of protein engineering and recombinant DNA technology, variants may be generated to improve or alter the characteristics of the polypeptides of the present invention. For instance, one or more amino acids can be deleted from the N-terminus or C-terminus of the polypeptide of the present invention without substantial loss of biological function. As an example, Ron et al. (J. Biol. Chem. 268: 2984-2988 (1993)) reported variant KGF proteins having heparin binding activity even after deleting 3, 8, or 27 amino-terminal amino acid residues. Similarly, Interferon gamma exhibited up to ten times higher activity after deleting 8-10 amino acid residues from the carboxy terminus of this protein. (Dobeli et al., J. Biotechnology 7:199-216 (1988).)

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Moreover, ample evidence demonstrates that variants often retain a biological activity similar to that of the naturally occurring protein. For example, Gayle and coworkers (J. Biol. Chem. 268:22105-22111 (1993)) conducted extensive mutational analysis of human cytokine IL-1a. They used random mutagenesis to generate over 3,500 individual IL-1a mutants that averaged 2.5 amino acid changes per variant over the entire length of the molecule. Multiple mutations were examined at every possible amino acid position. The investigators found that "[m]ost of the molecule could be altered with little effect on either [binding or biological activity]." In fact, only 23 unique amino acid sequences, out of more than 3,500 nucleotide sequences examined, produced a protein that significantly differed in activity from wild-type.

[109] Furthermore, even if deleting one or more amino acids from the N-terminus or C-terminus of a polypeptide results in modification or loss of one or more biological functions, other biological activities may still be retained. For example, the ability of a deletion variant to induce and/or to bind antibodies which recognize the secreted form will likely be retained when less than the majority of the residues of the secreted form are removed from the N-terminus or C-terminus. Whether a particular polypeptide lacking N-

or C-terminal residues of a protein retains such immunogenic activities can readily be determined by routine methods described herein and otherwise known in the art.

[110] Thus, the invention further includes polypeptide variants which show a functional activity (e.g., biological activity) of the polypeptides of the invention. Such variants include deletions, insertions, inversions, repeats, and substitutions selected according to general rules known in the art so as have little effect on activity.

The present application is directed to nucleic acid molecules at least 80%, 85%, [111]90%, 95%, 96%, 97%, 98%, 99% or 100% identical to the nucleic acid sequences disclosed herein, (e.g., encoding a polypeptide having the amino acid sequence of an N and/or C terminal deletion), irrespective of whether they encode a polypeptide having functional activity. This is because even where a particular nucleic acid molecule does not encode a polypeptide having functional activity, one of skill in the art would still know how to use the nucleic acid molecule, for instance, as a hybridization probe or a polymerase chain reaction (PCR) primer. Uses of the nucleic acid molecules of the present invention that do not encode a polypeptide having functional activity include, inter alia, (1) isolating a gene or allelic or splice variants thereof in a cDNA library; (2) in situ hybridization (e.g., "FISH") to metaphase chromosomal spreads to provide precise chromosomal location of the gene, as described in Verma et al., Human Chromosomes: A Manual of Basic Techniques, Pergamon Press, New York (1988); (3) Northern Blot analysis for detecting mRNA expression in specific tissues (e.g., normal or diseased tissues); and (4) in situ hybridization (e.g., histochemistry) for detecting mRNA expression in specific tissues (e.g., normal or diseased tissues).

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[112] Preferred, however, are nucleic acid molecules having sequences at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to the nucleic acid sequences disclosed herein, which do, in fact, encode a polypeptide having functional activity. By a polypeptide having "functional activity" is meant, a polypeptide capable of displaying one or more known functional activities associated with a full-length (complete) protein of the invention. Such functional activities include, but are not limited to, biological activity, antigenicity [ability to bind (or compete with a polypeptide of the invention for binding) to an anti-polypeptide of the invention antibody], immunogenicity (ability to generate antibody which binds to a specific polypeptide of the invention), ability to form multimers with polypeptides of the invention, and ability to bind to a receptor or ligand for a polypeptide of the invention.

[113] The functional activity of the polypeptides, and fragments, variants and derivatives of the invention, can be assayed by various methods.

- For example, in one embodiment where one is assaying for the ability to bind or [114] compete with a full-length polypeptide of the present invention for binding to an antipolypetide antibody, various immunoassays known in the art can be used, including but not limited to, competitive and non-competitive assay systems using techniques such as radioimmunoassays, ELISA (enzyme linked immunosorbent assay), immunoradiometric assays, gel diffusion precipitation reactions, immunoassays, immunodiffusion assays, in situ immunoassays (using colloidal gold, enzyme or radioisotope labels, for example), western blots, precipitation reactions, agglutination assays (e.g., gel agglutination assays, hemagglutination assays), complement fixation assays, immunofluorescence assays, protein A assays, and immunoelectrophoresis assays, etc. In one embodiment, antibody binding is detected by detecting a label on the primary antibody. In another embodiment, the primary antibody is detected by detecting binding of a secondary antibody or reagent to the primary antibody. In a further embodiment, the secondary antibody is labeled. Many means are known in the art for detecting binding in an immunoassay and are within the scope of the present invention.
- [115] In another embodiment, where a ligand is identified, or the ability of a polypeptide fragment, variant or derivative of the invention to multimerize is being evaluated, binding can be assayed, e.g., by means well-known in the art, such as, for example, reducing and non-reducing gel chromatography, protein affinity chromatography, and affinity blotting. See generally, Phizicky et al., Microbiol. Rev. 59:94-123 (1995). In another embodiment, the ability of physiological correlates of a polypeptide of the present invention to bind to a substrate(s) of the polypeptide of the invention can be routinely assayed using techniques known in the art.
- [116] In addition, assays described herein (see Examples) and otherwise known in the art may routinely be applied to measure the ability of polypeptides of the present invention and fragments, variants and derivatives thereof to elicit polypeptide related biological activity (either *in vitro* or *in vivo*). Other methods will be known to the skilled artisan and are within the scope of the invention.
- [117] Of course, due to the degeneracy of the genetic code, one of ordinary skill in the art will immediately recognize that a large number of the nucleic acid molecules having a sequence at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99%, or 100% identical to, for

example, the nucleic acid sequence of the cDNA contained in Clone ID NO:Z, the nucleic acid sequence referred to in Table 1A (SEQ ID NO:X), the nucleic acid sequence disclosed in Table 2 (e.g., the nucleic acid sequence delineated in columns 8 and 9) or fragments thereof, will encode polypeptides "having functional activity." In fact, since degenerate variants of any of these nucleotide sequences all encode the same polypeptide, in many instances, this will be clear to the skilled artisan even without performing the above described comparison assay. It will be further recognized in the art that, for such nucleic acid molecules that are not degenerate variants, a reasonable number will also encode a polypeptide having functional activity. This is because the skilled artisan is fully aware of amino acid substitutions that are either less likely or not likely to significantly effect protein function (e.g., replacing one aliphatic amino acid with a second aliphatic amino acid), as further described below.

[118] For example, guidance concerning how to make phenotypically silent amino acid substitutions is provided in Bowie et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," Science 247:1306-1310 (1990), wherein the authors indicate that there are two main strategies for studying the tolerance of an amino acid sequence to change.

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- [119] The first strategy exploits the tolerance of amino acid substitutions by natural selection during the process of evolution. By comparing amino acid sequences in different species, conserved amino acids can be identified. These conserved amino acids are likely important for protein function. In contrast, the amino acid positions where substitutions have been tolerated by natural selection indicates that these positions are not critical for protein function. Thus, positions tolerating amino acid substitution could be modified while still maintaining biological activity of the protein.
- [120] The second strategy uses genetic engineering to introduce amino acid changes at specific positions of a cloned gene to identify regions critical for protein function. For example, site directed mutagenesis or alanine-scanning mutagenesis (introduction of single alanine mutations at every residue in the molecule) can be used. See Cunningham and Wells, Science 244:1081-1085 (1989). The resulting mutant molecules can then be tested for biological activity.
- [121] As the authors state, these two strategies have revealed that proteins are surprisingly tolerant of amino acid substitutions. The authors further indicate which amino acid changes are likely to be permissive at certain amino acid positions in the protein. For

example, most buried (within the tertiary structure of the protein) amino acid residues require nonpolar side chains, whereas few features of surface side chains are generally conserved. Moreover, tolerated conservative amino acid substitutions involve replacement of the aliphatic or hydrophobic amino acids Ala, Val, Leu and Ile; replacement of the hydroxyl residues Ser and Thr; replacement of the acidic residues Asp and Glu; replacement of the amide residues Asn and Gln, replacement of the basic residues Lys, Arg, and His; replacement of the aromatic residues Phe, Tyr, and Trp, and replacement of the small-sized amino acids Ala, Ser, Thr, Met, and Gly. Besides conservative amino acid substitution, variants of the present invention include (i) substitutions with one or more of the non-conserved amino acid residues, where the substituted amino acid residues may or may not be one encoded by the genetic code, or (ii) substitutions with one or more of the amino acid residues having a substituent group, or (iii) fusion of the mature polypeptide with another compound, such as a compound to increase the stability and/or solubility of the polypeptide (for example, polyethylene glycol), (iv) fusion of the polypeptide with additional amino acids, such as, for example, an IgG Fc fusion region peptide, serum albumin (preferably human serum albumin) or a fragment thereof, or leader or secretory sequence, or a sequence facilitating purification, or (v) fusion of the polypeptide with another compound, such as albumin (including but not limited to recombinant albumin (see, e.g., U.S. Patent No. 5,876,969, issued March 2, 1999, EP Patent 0 413 622, and U.S. Patent No. 5,766,883, issued June 16, 1998, herein incorporated by reference in their entirety)). Such variant polypeptides are deemed to be within the scope of those skilled in the art from the teachings herein.

- [122] For example, polypeptide variants containing amino acid substitutions of charged amino acids with other charged or neutral amino acids may produce proteins with improved characteristics, such as less aggregation. Aggregation of pharmaceutical formulations both reduces activity and increases clearance due to the aggregate's immunogenic activity. See Pinckard et al., Clin. Exp. Immunol. 2:331-340 (1967); Robbins et al., Diabetes 36: 838-845 (1987); Cleland et al., Crit. Rev. Therapeutic Drug Carrier Systems 10:307-377 (1993).
- [123] A further embodiment of the invention relates to polypeptides which comprise the amino acid sequence of a polypeptide having an amino acid sequence which contains at least one amino acid substitution, but not more than 50 amino acid substitutions, even more preferably, not more than 40 amino acid substitutions, still more preferably, not more than 30 amino acid substitutions, and still even more preferably, not more than 20 amino acid

substitutions from a polypeptide sequence disclosed herein. Of course it is highly preferable for a polypeptide to have an amino acid sequence which comprises the amino acid sequence of a polypeptide of SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, an amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, an amino acid sequence encoded by the complement of SEQ ID NO:X, and/or an amino acid sequence encoded by cDNA contained in Clone ID NO:Z which contains, in order of ever-increasing preference, at least one, but not more than 10, 9, 8, 7, 6, 5, 4, 3, 2 or 1 amino acid substitutions.

[124] In specific embodiments, the polypeptides of the invention comprise, or alternatively, consist of, fragments or variants of a reference amino acid sequence selected from: (a) the amino acid sequence of SEQ ID NO:Y or fragments thereof (e.g., the mature form and/or other fragments described herein); (b) the amino acid sequence encoded by SEQ ID NO:X or fragments thereof; (c) the amino acid sequence encoded by the complement of SEQ ID NO:X or fragments thereof; (d) the amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or fragments thereof; and (e) the amino acid sequence encoded by cDNA contained in Clone ID NO:Z or fragments thereof; wherein the fragments or variants have 1-5, 5-10, 5-25, 5-50, 10-50 or 50-150, amino acid residue additions, substitutions, and/or deletions when compared to the reference amino acid sequence. In preferred embodiments, the amino acid substitutions are conservative. Polynucleotides encoding these polypeptides are also encompassed by the invention.

Polynucleotide and Polypeptide Fragments

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[125] The present invention is also directed to polynucleotide fragments of the polynucleotides (nucleic acids) of the invention. In the present invention, a "polynucleotide fragment" refers to a polynucleotide having a nucleic acid sequence which, for example: is a portion of the cDNA contained in Clone ID NO:Z or the complementary strand thereto; is a portion of the polynucleotide sequence encoding the polypeptide encoded by the cDNA contained in Clone ID NO:Z or the complementary strand thereto; is a portion of a polynucleotide sequence encoding the amino acid sequence encoded by the region of SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto; is a portion of the polynucleotide sequence of SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto; is

SEQ ID NO:X or the complementary strand thereto; is a polynucleotide sequence encoding a portion of the polypeptide of SEQ ID NO:Y; is a polynucleotide sequence encoding a portion of a polypeptide encoded by SEQ ID NO:X; is a polynucleotide sequence encoding a portion of a polypeptide encoded by the complement of the polynucleotide sequence in SEQ ID NO:X; is a portion of a polynucleotide sequence encoding the amino acid sequence encoded by the region of SEQ ID NO:B as defined in column 6 of Table 1B or the complementary strand thereto; or is a portion of the polynucleotide sequence of SEQ ID NO:B as defined in column 6 of Table 1B or the complementary strand thereto.

The polynucleotide fragments of the invention are preferably at least about 15 nt, and more preferably at least about 20 nt, still more preferably at least about 30 nt, and even more preferably, at least about 40 nt, at least about 50 nt, at least about 75 nt, or at least about 150 nt in length. A fragment "at least 20 nt in length," for example, is intended to include 20 or more contiguous bases from the cDNA sequence contained in Clone ID NO:Z, or the nucleotide sequence shown in SEQ ID NO:X or the complementary stand thereto. In this context "about" includes the particularly recited value or a value larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. These nucleotide fragments have uses that include, but are not limited to, as diagnostic probes and primers as discussed herein. Of course, larger fragments (e.g., at least 160, 170, 180, 190, 200, 250, 500, 600, 1000, or 2000 nucleotides in length) are also encompassed by the invention.

[127] Moreover, representative examples of polynucleotide fragments of the invention comprise, or alternatively consist of, a sequence from about nucleotide number 1-50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-350, 351-400, 401-450, 451-500, 501-550, 551-600, 601-650, 651-700, 701-750, 751-800, 801-850, 851-900, 901-950, 951-1000, 1001-1050, 1051-1100, 1101-1150, 1151-1200, 1201-1250, 1251-1300, 1301-1350, 1351-1400, 1401-1450, 1451-1500, 1501-1550, 1551-1600, 1601-1650, 1651-1700, 1701-1750, 1751-1800, 1801-1850, 1851-1900, 1901-1950, 1951-2000, 2001-2050, 2051-2100, 2101-2150, 2151-2200, 2201-2250, 2251-2300, 2301-2350, 2351-2400, 2401-2450, 2451-2500, 2501-2550, 2551-2600, 2601-2650, 2651-2700, 2701-2750, 2751-2800, 2801-2850, 2851-2900, 2901-2950, 2951-3000, 3001-3050, 3051-3100, 3101-3150, 3151-3200, 3201-3250, 3251-3300, 3301-3350, 3351-3400, 3401-3450, 3451-3500, 3501-3550, 3551-3600, 3601-3650, 3651-3700, 3701-3750, 3751-3800, 3801-3850, 3851-3900, 3901-3950, 3951-4000, 4001-4050, 4051-4100, 4101-4150, 4151-4200, 4201-4250, 4251-4300, 4301-4350, 4351-

4400, 4401-4450, 4451-4500, 4501-4550, 4551-4600, 4601-4650, 4651-4700, 4701-4750, 4751-4800, 4801-4850, 4851-4900, 4901-4950, 4951-5000, 5001-5050, 5051-5100, 5101-5150, 5151-5200, 5201-5250, 5251-5300, 5301-5350, 5351-5400, 5401-5450, 5451-5500, 5501-5550, 5551-5600, 5601-5650, 5651-5700, 5701-5750, 5751-5800, 5801-5850, 5851-5900, 5901-5950, 5951-6000, 6001-6050, 6051-6100, 6101-6150, 6151-6200, 6201-6250, 6251-6300, 6301-6350, 6351-6400, 6401-6450, 6451-6500, 6501-6550, 6551-6600, 6601-6650, 6651-6700, 6701-6750, 6751-6800, 6801-6850, 6851-6900, 6901-6950, 6951-7000, 7001-7050, 7051-7100, 7101-7150, 7151-7200, 7201-7250, 7251-7300 or 7301 to the end of SEQ ID NO:X, or the complementary strand thereto. In this context "about" includes the particularly recited range or a range larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. Preferably, these fragments encode a polypeptide which has a functional activity (e.g., biological activity). More preferably, these polynucleotides can be used as probes or primers as discussed herein. Polynucleotides which hybridize to one or more of these polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

Further representative examples of polynucleotide fragments of the invention [128] comprise, or alternatively consist of, a sequence from about nucleotide number 1-50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-350, 351-400, 401-450, 451-500, 501-550, 551-600, 601-650, 651-700, 701-750, 751-800, 801-850, 851-900, 901-950, 951-1000, 1001-1050, 1051-1100, 1101-1150, 1151-1200, 1201-1250, 1251-1300, 1301-1350, 1351-1400, 1401-1450, 1451-1500, 1501-1550, 1551-1600, 1601-1650, 1651-1700, 1701-1750, 1751-1800, 1801-1850, 1851-1900, 1901-1950, 1951-2000, 2001-2050, 2051-2100, 2101-2150, 2151-2200, 2201-2250, 2251-2300, 2301-2350, 2351-2400, 2401-2450, 2451-2500, 2501-2550, 2551-2600, 2601-2650, 2651-2700, 2701-2750, 2751-2800, 2801-2850, 2851-2900, 2901-2950, 2951-3000, 3001-3050, 3051-3100, 3101-3150, 3151-3200, 3201-3250, 3251-3300, 3301-3350, 3351-3400, 3401-3450, 3451-3500, 3501-3550, 3551-3600, 3601-3650, 3651-3700, 3701-3750, 3751-3800, 3801-3850, 3851-3900, 3901-3950, 3951-4000, 4001-4050, 4051-4100, 4101-4150, 4151-4200, 4201-4250, 4251-4300, 4301-4350, 4351-4400, 4401-4450, 4451-4500, 4501-4550, 4551-4600, 4601-4650, 4651-4700, 4701-4750, 4751-4800, 4801-4850, 4851-4900, 4901-4950, 4951-5000, 5001-5050, 5051-5100, 5101-5150, 5151-5200, 5201-5250, 5251-5300, 5301-5350, 5351-5400, 5401-5450, 5451-5500, 5501-5550, 5551-5600, 5601-5650, 5651-5700, 5701-5750, 5751-5800, 5801-5850, 5851-

5900, 5901-5950, 5951-6000, 6001-6050, 6051-6100, 6101-6150, 6151-6200, 6201-6250, 6251-6300, 6301-6350, 6351-6400, 6401-6450, 6451-6500, 6501-6550, 6551-6600, 6601-6650, 6651-6700, 6701-6750, 6751-6800, 6801-6850, 6851-6900, 6901-6950, 6951-7000, 7001-7050, 7051-7100, 7101-7150, 7151-7200, 7201-7250, 7251-7300 or 7301 to the end of the cDNA sequence contained in Clone ID NO:Z, or the complementary strand thereto. In this context "about" includes the particularly recited range or a range larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. Preferably, these fragments encode a polypeptide which has a functional activity (e.g., biological activity). More preferably, these polynucleotides can be used as probes or primers as discussed herein. Polynucleotides which hybridize to one or more of these polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

Moreover, representative examples of polynucleotide fragments of the invention [129] comprise, or alternatively consist of, a nucleic acid sequence comprising one, two, three, four, five, six, seven, eight, nine, ten, or more of the above described polynucleotide fragments of the invention in combination with a polynucleotide sequence delineated in Table 1B column 6. Additional, representative examples of polynucleotide fragments of the invention comprise, or alternatively consist of, a nucleic acid sequence comprising one, two, three, four, five, six, seven, eight, nine, ten, or more of the above described polynucleotide fragments of the invention in combination with a polynucleotide sequence that is the complementary strand of a sequence delineated in column 6 of Table 1B. In further embodiments, the above-described polynucleotide fragments of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotide fragments of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that

bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

- In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more fragments of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.
- In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more fragments of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

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- [132] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more fragments of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.
- [133] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that

bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[134] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X (e.g., as described herein) are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[136] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower

stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In the present invention, a "polypeptide fragment" refers to an amino acid [137] sequence which is a portion of that contained in SEQ ID NO:Y, a portion of an amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, a portion of an amino acid sequence encoded by the polynucleotide sequence of SEQ ID NO:X, a portion of an amino acid sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, and/or a portion of an amino acid sequence encoded by the cDNA contained in Clone ID NO:Z. Protein (polypeptide) fragments may be "free-standing," or comprised within a larger polypeptide of which the fragment forms a part or region, most preferably as a single continuous region. Representative examples of polypeptide fragments of the invention, include, for example, fragments comprising, or alternatively consisting of, from about amino acid number 1-20, 21-40, 41-60, 61-80, 81-100, 101-120, 121-140, 141-160, 161-180, 181-200, 201-220, 221-240, 241-260, 261-280, 281-300, 301-320, 321-340, 341-360, 361-380, 381-400, 401-420, 421-440, 441-460, 461-480, 481-500, 501-520, 521-540, 541-560, 561-580, 581-600, 601-620, 621-640, 641-660, 661-680, 681-700, 701-720, 721-740, 741-760, 761-780, 781-800, 801-820, 821-840, 841-860, 861-880, 881-900, 901-920, 921-940, 941-960, 961-980, 981-1000, 1001-1020, 1021-1040, 1041-1060, 1061-1080, 1081-1100, 1101-1120, 1121-1140, 1141-1160, 1161-1180, 1181-1200, 1201-1220, 1221-1240, 1241-1260, 1261-1280, 1281-1300, 1301-1320, 1321-.1340, 1341-1360, 1361-1380, 1381-1400, 1401-1420, 1421-1440, or 1441 to the end of the coding region of cDNA and SEQ ID NO: Y. In a preferred embodiment, polypeptide fragments of the invention include, for example, fragments comprising, or alternatively consisting of, from about amino acid number 1-20, 21-40, 41-60, 61-80, 81-100, 101-120, 121-140, 141-160, 161-180, 181-200, 201-220, 221-240, 241-260, 261-280, 281-300, 301-320, 321-340, 341-360, 361-380, 381-400, 401-420, 421-440, 441-460, 461-480, 481-500, 501-520, 521-540, 541-560, 561-580, 581-600, 601-620, 621-640, 641-660, 661-680, 681-700, 701-720, 721-740, 741-760, 761-780, 781-800, 801-820, 821-840, 841-860, 861-880, 881-900, 901-920, 921-940, 941-960, 961-980, 981-1000, 1001-1020, 1021-1040, 1041-1060, 1061-1080, 1081-1100, 1101-1120, 1121-1140, 1141-1160, 1161-1180, 1181-1200,

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1201-1220, 1221-1240, 1241-1260, 1261-1280, 1281-1300, 1301-1320, 1321-1340, 1341-1360, 1361-1380, 1381-1400, 1401-1420, 1421-1440, or 1441 to the end of the coding region of SEQ ID NO:Y. Moreover, polypeptide fragments of the invention may be at least about 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 100, 110, 120, 130, 140, or 150 amino acids in length. In this context "about" includes the particularly recited ranges or values, or ranges or values larger or smaller by several (5, 4, 3, 2, or 1) amino acids, at either extreme or at both extremes. Polynucleotides encoding these polypeptide fragments are also encompassed by the invention.

- Even if deletion of one or more amino acids from the N-terminus of a protein results in modification of loss of one or more biological functions of the protein, other functional activities (e.g., biological activities, ability to multimerize, ability to bind a ligand) may still be retained. For example, the ability of shortened muteins to induce and/or bind to antibodies which recognize the complete or mature forms of the polypeptides generally will be retained when less than the majority of the residues of the complete or mature polypeptide are removed from the N-terminus. Whether a particular polypeptide lacking N-terminal residues of a complete polypeptide retains such immunologic activities can readily be determined by routine methods described herein and otherwise known in the art. It is not unlikely that a mutein with a large number of deleted N-terminal amino acid residues may retain some biological or immunogenic activities. In fact, peptides composed of as few as six amino acid residues may often evoke an immune response.
- [139] Accordingly, polypeptide fragments include the secreted protein as well as the mature form. Further preferred polypeptide fragments include the secreted protein or the mature form having a continuous series of deleted residues from the amino or the carboxy terminus, or both. For example, any number of amino acids, ranging from 1-60, can be deleted from the amino terminus of either the secreted polypeptide or the mature form. Similarly, any number of amino acids, ranging from 1-30, can be deleted from the carboxy terminus of the secreted protein or mature form. Furthermore, any combination of the above amino and carboxy terminus deletions are preferred. Similarly, polynucleotides encoding these polypeptide fragments are also preferred.
- [140] The present invention further provides polypeptides having one or more residues deleted from the amino terminus of the amino acid sequence of a polypeptide disclosed herein (e.g., a polypeptide of SEQ ID NO:Y, a polypeptide encoded by the polynucleotide sequence contained in SEQ ID NO:X or the complement thereof, a polypeptide encoded by

the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, a polypeptide encoded by the portion of SEQ ID NO:B as defined in column 6 of Table 1B, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z). In particular, N-terminal deletions may be described by the general formula m-q, where q is a whole integer representing the total number of amino acid residues in a polypeptide of the invention (e.g., the polypeptide disclosed in SEQ ID NO:Y, or the polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2), and m is defined as any integer ranging from 2 to q-6. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[141] The present invention further provides polypeptides having one or more residues from the carboxy terminus of the amino acid sequence of a polypeptide disclosed herein (e.g., a polypeptide of SEQ ID NO:Y, a polypeptide encoded by the polynucleotide sequence contained in SEQ ID NO:X, a polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z). In particular, C-terminal deletions may be described by the general formula 1-n, where n is any whole integer ranging from 6 to q-1, and where n corresponds to the position of amino acid residue in a polypeptide of the invention. Polynucleotides encoding these polypeptides are also encompassed by the invention.

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- [142] In addition, any of the above described N- or C-terminal deletions can be combined to produce a N- and C-terminal deleted polypeptide. The invention also provides polypeptides having one or more amino acids deleted from both the amino and the carboxyl termini, which may be described generally as having residues m-n of a polypeptide encoded by SEQ ID NO:X (e.g., including, but not limited to, the preferred polypeptide disclosed as SEQ ID NO:Y and the polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2), the cDNA contained in Clone ID NO:Z, and/or the complement thereof, where n and m are integers as described above. Polynucleotides encoding these polypeptides are also encompassed by the invention.
- [143] Also as mentioned above, even if deletion of one or more amino acids from the C-terminus of a protein results in modification of loss of one or more biological functions of the protein, other functional activities (e.g., biological activities, ability to multimerize, ability to bind a ligand) may still be retained. For example the ability of the shortened mutein to induce and/or bind to antibodies which recognize the complete or mature forms of the polypeptide generally will be retained when less than the majority of the residues of the

complete or mature polypeptide are removed from the C-terminus. Whether a particular polypeptide lacking C-terminal residues of a complete polypeptide retains such immunologic activities can readily be determined by routine methods described herein and otherwise known in the art. It is not unlikely that a mutein with a large number of deleted C-terminal amino acid residues may retain some biological or immunogenic activities. In fact, peptides composed of as few as six amino acid residues may often evoke an immune response.

- [144] The present application is also directed to proteins containing polypeptides at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a polypeptide sequence set forth herein. In preferred embodiments, the application is directed to proteins containing polypeptides at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to polypeptides having the amino acid sequence of the specific N- and C-terminal deletions. Polynucleotides encoding these polypeptides are also encompassed by the invention.
- [145] Any polypeptide sequence encoded by, for example, the polynucleotide sequences set forth as SEQ ID NO:X or the complement thereof, (presented, for example, in Tables 1A and 2), the cDNA contained in Clone ID NO:Z, or the polynucleotide sequence as defined in column 6 of Table 1B, may be analyzed to determine certain preferred regions of the polypeptide. For example, the amino acid sequence of a polypeptide encoded by a polynucleotide sequence of SEQ ID NO:X (e.g., the polypeptide of SEQ ID NO:Y and the polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2) or the cDNA contained in Clone ID NO:Z may be analyzed using the default parameters of the DNASTAR computer algorithm (DNASTAR, Inc., 1228 S. Park St., Madison, WI 53715 USA; http://www.dnastar.com/).

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[146] Polypeptide regions that may be routinely obtained using the DNASTAR computer algorithm include, but are not limited to, Garnier-Robson alpha-regions, beta-regions, turn-regions, and coil-regions; Chou-Fasman alpha-regions, beta-regions, and turn-regions; Kyte-Doolittle hydrophilic regions and hydrophobic regions; Eisenberg alpha-and beta-amphipathic regions; Karplus-Schulz flexible regions; Emini surface-forming regions; and Jameson-Wolf regions of high antigenic index. Among highly preferred polynucleotides of the invention in this regard are those that encode polypeptides comprising regions that combine several structural features, such as several (e.g., 1, 2, 3 or 4) of the features set out above.

[147] Additionally, Kyte-Doolittle hydrophilic regions and hydrophobic regions, Emini surface-forming regions, and Jameson-Wolf regions of high antigenic index (i.e., containing four or more contiguous amino acids having an antigenic index of greater than or equal to 1.5, as identified using the default parameters of the Jameson-Wolf program) can routinely be used to determine polypeptide regions that exhibit a high degree of potential for antigenicity. Regions of high antigenicity are determined from data by DNASTAR analysis by choosing values which represent regions of the polypeptide which are likely to be exposed on the surface of the polypeptide in an environment in which antigen recognition may occur in the process of initiation of an immune response.

- [148] Preferred polypeptide fragments of the invention are fragments comprising, or alternatively, consisting of, an amino acid sequence that displays a functional activity (e.g. biological activity) of the polypeptide sequence of which the amino acid sequence is a fragment. By a polypeptide displaying a "functional activity" is meant a polypeptide capable of one or more known functional activities associated with a full-length protein, such as, for example, biological activity, antigenicity, immunogenicity, and/or multimerization, as described herein.
- [149] Other preferred polypeptide fragments are biologically active fragments. Biologically active fragments are those exhibiting activity similar, but not necessarily identical, to an activity of the polypeptide of the present invention. The biological activity of the fragments may include an improved desired activity, or a decreased undesirable activity.
- [150] In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the antigenic fragments of the polypeptide of SEQ ID NO:Y, or portions thereof. Polynucleotides encoding these polypeptides are also encompassed by the invention.
- [151] The present invention encompasses polypeptides comprising, or alternatively consisting of, an epitope of: the polypeptide sequence shown in SEQ ID NO:Y; a polypeptide sequence encoded by SEQ ID NO:X or the complementary strand thereto; the polypeptide sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2; the polypeptide sequence encoded by the portion of SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereto; the polypeptide sequence encoded by the cDNA contained in Clone ID NO:Z; or the polypeptide sequence encoded by a polynucleotide that hybridizes to the sequence of SEQ ID NO:X, the complement of the

sequence of SEQ ID NO:X, the complement of a portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, or the cDNA sequence contained in Clone ID NO:Z under stringent hybridization conditions or alternatively, under lower stringency hybridization as defined *supra*. The present invention further encompasses polynucleotide sequences encoding an epitope of a polypeptide sequence of the invention (such as, for example, the sequence disclosed in SEQ ID NO:X, or a fragment thereof), polynucleotide sequences of the complementary strand of a polynucleotide sequence encoding an epitope of the invention, and polynucleotide sequences which hybridize to the complementary strand under stringent hybridization conditions or alternatively, under lower stringency hybridization conditions defined *supra*.

[152] The term "epitopes," as used herein, refers to portions of a polypeptide having antigenic or immunogenic activity in an animal, preferably a mammal, and most preferably in a human. In a preferred embodiment, the present invention encompasses a polypeptide comprising an epitope, as well as the polynucleotide encoding this polypeptide. An "immunogenic epitope," as used herein, is defined as a portion of a protein that elicits an antibody response in an animal, as determined by any method known in the art, for example, by the methods for generating antibodies described *infra*. (See, for example, Geysen et al., Proc. Natl. Acad. Sci. USA 81:3998- 4002 (1983)). The term "antigenic epitope," as used herein, is defined as a portion of a protein to which an antibody can immunospecifically bind its antigen as determined by any method well known in the art, for example, by the immunoassays described herein. Immunospecific binding excludes non-specific binding but does not necessarily exclude cross- reactivity with other antigens. Antigenic epitopes need not necessarily be immunogenic.

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[153] Fragments which function as epitopes may be produced by any conventional means. (See, e.g., Houghten, R. A., Proc. Natl. Acad. Sci. USA 82:5131-5135 (1985) further described in U.S. Patent No. 4,631,211.)

[154] In the present invention, antigenic epitopes preferably contain a sequence of at least 4, at least 5, at least 6, at least 7, more preferably at least 8, at least 9, at least 10, at least 11, at least 12, at least 13, at least 14, at least 15, at least 20, at least 25, at least 30, at least 40, at least 50, and, most preferably, between about 15 to about 30 amino acids. Preferred polypeptides comprising immunogenic or antigenic epitopes are at least 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, or 100 amino acid residues in length. Additional non-exclusive preferred antigenic epitopes include the antigenic

epitopes disclosed herein, as well as portions thereof. Antigenic epitopes are useful, for example, to raise antibodies, including monoclonal antibodies, that specifically bind the epitope. Preferred antigenic epitopes include the antigenic epitopes disclosed herein, as well as any combination of two, three, four, five or more of these antigenic epitopes. Antigenic epitopes can be used as the target molecules in immunoassays. (See, for instance, Wilson et al., Cell 37:767-778 (1984); Sutcliffe et al., Science 219:660-666 (1983)).

[155] Non-limiting examples of epitopes of polypeptides that can be used to generate antibodies of the invention include a polypeptide comprising, or alternatively consisting of, at least one, two, three, four, five, six or more of the portion(s) of SEQ ID NO:Y specified in column 7 of Table 1A. These polypeptide fragments have been determined to bear antigenic epitopes of the proteins of the invention by the analysis of the Jameson-Wolf antigenic index which is included in the DNAStar suite of computer programs. By "comprise" it is intended that a polypeptide contains at least one, two, three, four, five, six or more of the portion(s) of SEQ ID NO:Y shown in column 7 of Table 1A, but it may contain additional flanking residues on either the amino or carboxyl termini of the recited Such additional flanking sequences are preferably sequences naturally found adjacent to the portion; i.e., contiguous sequence shown in SEQ ID NO:Y. The flanking sequence may, however, be sequences from a heterolgous polypeptide, such as from another protein described herein or from a heterologous polypeptide not described herein. In particular embodiments, epitope portions of a polypeptide of the invention comprise one, two, three, or more of the portions of SEQ ID NO:Y shown in column 7 of Table 1A.

Similarly, immunogenic epitopes can be used, for example, to induce antibodies according to methods well known in the art. See, for instance, Sutcliffe et al., supra; Wilson et al., supra; Chow et al., Proc. Natl. Acad. Sci. USA 82:910-914; and Bittle et al., J. Gen. Virol. 66:2347-2354 (1985). Preferred immunogenic epitopes include the immunogenic epitopes disclosed herein, as well as any combination of two, three, four, five or more of these immunogenic epitopes. The polypeptides comprising one or more immunogenic epitopes may be presented for eliciting an antibody response together with a carrier protein, such as an albumin, to an animal system (such as rabbit or mouse), or, if the polypeptide is of sufficient length (at least about 25 amino acids), the polypeptide may be presented without a carrier. However, immunogenic epitopes comprising as few as 8 to 10 amino acids have been shown to be sufficient to raise antibodies capable of binding to, at the very least, linear epitopes in a denatured polypeptide (e.g., in Western blotting).

[157] Epitope-bearing polypeptides of the present invention may be used to induce antibodies according to methods well known in the art including, but not limited to, in vivo immunization, in vitro immunization, and phage display methods. See, e.g., Sutcliffe et al., supra; Wilson et al., supra, and Bittle et al., J. Gen. Virol., 66:2347-2354 (1985). If in vivo immunization is used, animals may be immunized with free peptide; however, anti-peptide antibody titer may be boosted by coupling the peptide to a macromolecular carrier, such as keyhole limpet hemacyanin (KLH) or tetanus toxoid. For instance, peptides containing cysteine residues may be coupled to a carrier using a linker such as maleimidobenzoyl- Nhydroxysuccinimide ester (MBS), while other peptides may be coupled to carriers using a more general linking agent such as glutaraldehyde. Animals such as rabbits, rats and mice are immunized with either free or carrier- coupled peptides, for instance, by intraperitoneal and/or intradermal injection of emulsions containing about 100 µg of peptide or carrier protein and Freund's adjuvant or any other adjuvant known for stimulating an immune response. Several booster injections may be needed, for instance, at intervals of about two weeks, to provide a useful titer of anti-peptide antibody which can be detected, for example, by ELISA assay using free peptide adsorbed to a solid surface. The titer of anti-peptide antibodies in serum from an immunized animal may be increased by selection of antipeptide antibodies, for instance, by adsorption to the peptide on a solid support and elution of the selected antibodies according to methods well known in the art.

As one of skill in the art will appreciate, and as discussed above, the polypeptides of the present invention (e.g., those comprising an immunogenic or antigenic epitope) can be fused to heterologous polypeptide sequences. For example, polypeptides of the present invention (including fragments or variants thereof), may be fused with the constant domain of immunoglobulins (IgA, IgE, IgG, IgM), or portions thereof (CH1, CH2, CH3, or any combination thereof and portions thereof, resulting in chimeric polypeptides. By way of another non-limiting example, polypeptides and/or antibodies of the present invention (including fragments or variants thereof) may be fused with albumin (including but not limited to recombinant human serum albumin or fragments or variants thereof (see, e.g., U.S. Patent No. 5,876,969, issued March 2, 1999, EP Patent 0 413 622, and U.S. Patent No. 5,766,883, issued June 16, 1998, herein incorporated by reference in their entirety)). In a preferred embodiment, polypeptides and/or antibodies of the present invention (including fragments or variants thereof) are fused with the mature form of human serum albumin (i.e.,

amino acids 1 – 585 of human serum albumin as shown in Figures 1 and 2 of EP Patent 0 322 094) which is herein incorporated by reference in its entirety. In another preferred embodiment, polypeptides and/or antibodies of the present invention (including fragments or variants thereof) are fused with polypeptide fragments comprising, or alternatively consisting of, amino acid residues 1-z of human serum albumin, where z is an integer from 369 to 419, as described in U.S. Patent 5,766,883 herein incorporated by reference in its entirety. Polypeptides and/or antibodies of the present invention (including fragments or variants thereof) may be fused to either the N- or C-terminal end of the heterologous protein (e.g., immunoglobulin Fc polypeptide or human serum albumin polypeptide). Polynucleotides encoding fusion proteins of the invention are also encompassed by the invention.

Such fusion proteins as those described above may facilitate purification and may [159] increase half-life in vivo. This has been shown for chimeric proteins consisting of the first two domains of the human CD4-polypeptide and various domains of the constant regions of the heavy or light chains of mammalian immunoglobulins. See, e.g., EP 394,827; Traunecker et al., Nature, 331:84-86 (1988). Enhanced delivery of an antigen across the epithelial barrier to the immune system has been demonstrated for antigens (e.g., insulin) conjugated to an FcRn binding partner such as IgG or Fc fragments (see, e.g., PCT Publications WO 96/22024 and WO 99/04813). IgG fusion proteins that have a disulfidelinked dimeric structure due to the IgG portion desulfide bonds have also been found to be more efficient in binding and neutralizing other molecules than monomeric polypeptides or fragments thereof alone. See, e.g., Fountoulakis et al., J. Biochem., 270:3958-3964 (1995). Nucleic acids encoding the above epitopes can also be recombined with a gene of interest as an epitope tag (e.g., the hemagglutinin (HA) tag or flag tag) to aid in detection and purification of the expressed polypeptide. For example, a system described by Janknecht et al. allows for the ready purification of non-denatured fusion proteins expressed in human cell lines (Janknecht et al., 1991, Proc. Natl. Acad. Sci. USA 88:8972-897). In this system, the gene of interest is subcloned into a vaccinia recombination plasmid such that the open reading frame of the gene is translationally fused to an aminoterminal tag consisting of six histidine residues. The tag serves as a matrix binding domain for the fusion protein. Extracts from cells infected with the recombinant vaccinia virus are loaded onto Ni2+ nitriloacetic acid-agarose column and histidine-tagged proteins can be selectively eluted with imidazole-containing buffers.

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Fusion Proteins

[160] Any polypeptide of the present invention can be used to generate fusion proteins. For example, the polypeptide of the present invention, when fused to a second protein, can be used as an antigenic tag. Antibodies raised against the polypeptide of the present invention can be used to indirectly detect the second protein by binding to the polypeptide. Moreover, because secreted proteins target cellular locations based on trafficking signals, polypeptides of the present invention which are shown to be secreted can be used as targeting molecules once fused to other proteins.

- [161] Examples of domains that can be fused to polypeptides of the present invention include not only heterologous signal sequences, but also other heterologous functional regions. The fusion does not necessarily need to be direct, but may occur through linker sequences.
- [162] In certain preferred embodiments, proteins of the invention are fusion proteins comprising an amino acid sequence that is an N and/or C- terminal deletion of a polypeptide of the invention. In preferred embodiments, the invention is directed to a fusion protein comprising an amino acid sequence that is at least 90%, 95%, 96%, 97%, 98% or 99% identical to a polypeptide sequence of the invention. Polynucleotides encoding these proteins are also encompassed by the invention.
- [163] Moreover, fusion proteins may also be engineered to improve characteristics of the polypeptide of the present invention. For instance, a region of additional amino acids, particularly charged amino acids, may be added to the N-terminus of the polypeptide to improve stability and persistence during purification from the host cell or subsequent handling and storage. Also, peptide moieties may be added to the polypeptide to facilitate purification. Such regions may be removed prior to final preparation of the polypeptide. The addition of peptide moieties to facilitate handling of polypeptides are familiar and routine techniques in the art.
- [164] As one of skill in the art will appreciate that, as discussed above, polypeptides of the present invention, and epitope-bearing fragments thereof, can be combined with heterologous polypeptide sequences. For example, the polypeptides of the present invention may be fused with heterologous polypeptide sequences, for example, the polypeptides of the present invention may be fused with the constant domain of immunoglobulins (IgA, IgE, IgG, IgM) or portions thereof (CH1, CH2, CH3, and any

combination thereof, including both entire domains and portions thereof), or albumin (including, but not limited to, native or recombinant human albumin or fragments or variants thereof (see, e.g., U.S. Patent No. 5,876,969, issued March 2, 1999, EP Patent 0 413 622, and U.S. Patent No. 5,766,883, issued June 16, 1998, herein incorporated by reference in their entirety)), resulting in chimeric polypeptides. For example, EP-A-O 464 533 (Canadian counterpart 2045869) discloses fusion proteins comprising various portions of constant region of immunoglobulin molecules together with another human protein or part thereof. In many cases, the Fc part in a fusion protein is beneficial in therapy and diagnosis, and thus can result in, for example, improved pharmacokinetic properties (EP-A) 0232 262). Alternatively, deleting the Fc part after the fusion protein has been expressed, detected, and purified, would be desired. For example, the Fc portion may hinder therapy and diagnosis if the fusion protein is used as an antigen for immunizations. In drug discovery, for example, human proteins, such as hIL-5, have been fused with Fc portions for the purpose of high-throughput screening assays to identify antagonists of hIL-5. See, D. Bennett et al., J. Molecular Recognition 8:52-58 (1995); K. Johanson et al., J. Biol. Chem. 270:9459-9471 (1995).

[165] Moreover, the polypeptides of the present invention can be fused to marker sequences, such as a polypeptide which facilitates purification of the fused polypeptide. In preferred embodiments, the marker amino acid sequence is a hexa-histidine peptide, such as the tag provided in a pQE vector (QIAGEN, Inc., 9259 Eton Avenue, Chatsworth, CA, 91311), among others, many of which are commercially available. As described in Gentz et al., Proc. Natl. Acad. Sci. USA 86:821-824 (1989), for instance, hexa-histidine provides for convenient purification of the fusion protein. Another peptide tag useful for purification, the "HA" tag, corresponds to an epitope derived from the influenza hemagglutinin protein (Wilson et al., Cell 37:767 (1984)).

[166] Additional fusion proteins of the invention may be generated through the techniques of gene-shuffling, motif-shuffling, exon-shuffling, and/or codon-shuffling (collectively referred to as "DNA shuffling"). DNA shuffling may be employed to modulate the activities of polypeptides of the invention, such methods can be used to generate polypeptides with altered activity, as well as agonists and antagonists of the polypeptides. See, generally, U.S. Patent Nos. 5,605,793; 5,811,238; 5,830,721; 5,834,252; and 5,837,458, and Patten et al., Curr. Opinion Biotechnol. 8:724-33 (1997); Harayama, Trends Biotechnol. 16(2):76-82 (1998); Hansson, et al., J. Mol. Biol. 287:265-76 (1999);

and Lorenzo and Blasco, Biotechniques 24(2):308- 13 (1998) (each of these patents and publications are hereby incorporated by reference in its entirety). In one embodiment, alteration of polynucleotides corresponding to SEQ ID NO:X and the polypeptides encoded by these polynucleotides may be achieved by DNA shuffling. DNA shuffling involves the assembly of two or more DNA segments by homologous or site-specific recombination to generate variation in the polynucleotide sequence. In another embodiment, polynucleotides of the invention, or the encoded polypeptides, may be altered by being subjected to random mutagenesis by error-prone PCR, random nucleotide insertion or other methods prior to recombination. In another embodiment, one or more components, motifs, sections, parts, domains, fragments, etc., of a polynucleotide encoding a polypeptide of the invention may be recombined with one or more components, motifs, sections, parts, domains, fragments, etc. of one or more heterologous molecules.

[167] Thus, any of these above fusions can be engineered using the polynucleotides or the polypeptides of the present invention.

Recombinant and Synthetic Production of Polypeptides of the Invention

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[168] The present invention also relates to vectors containing the polynucleotide of the present invention, host cells, and the production of polypeptides by synthetic and recombinant techniques. The vector may be, for example, a phage, plasmid, viral, or retroviral vector. Retroviral vectors may be replication competent or replication defective. In the latter case, viral propagation generally will occur only in complementing host cells.

[169] The polynucleotides of the invention may be joined to a vector containing a selectable marker for propagation in a host. Generally, a plasmid vector is introduced in a precipitate, such as a calcium phosphate precipitate, or in a complex with a charged lipid. If the vector is a virus, it may be packaged in vitro using an appropriate packaging cell line and then transduced into host cells.

[170] The polynucleotide insert should be operatively linked to an appropriate promoter, such as the phage lambda PL promoter, the E. coli lac, trp, phoA and tac promoters, the SV40 early and late promoters and promoters of retroviral LTRs, to name a few. Other suitable promoters will be known to the skilled artisan. The expression constructs will further contain sites for transcription initiation, termination, and, in the transcribed region, a ribosome binding site for translation. The coding portion of the transcripts expressed by the constructs will preferably include a translation initiating codon

at the beginning and a termination codon (UAA, UGA or UAG) appropriately positioned at the end of the polypeptide to be translated.

As indicated, the expression vectors will preferably include at least one selectable marker. Such markers include dihydrofolate reductase, G418, glutamine synthase, or neomycin resistance for eukaryotic cell culture, and tetracycline, kanamycin or ampicillin resistance genes for culturing in E. coli and other bacteria. Representative examples of appropriate hosts include, but are not limited to, bacterial cells, such as E. coli, Streptomyces and Salmonella typhimurium cells; fungal cells, such as yeast cells (e.g., Saccharomyces cerevisiae or Pichia pastoris (ATCC Accession No. 201178)); insect cells such as Drosophila S2 and Spodoptera Sf9 cells; animal cells such as CHO, COS, 293, and Bowes melanoma cells; and plant cells. Appropriate culture mediums and conditions for the above-described host cells are known in the art.

Among vectors preferred for use in bacteria include pQE70, pQE60 and pQE-9, available from QIAGEN, Inc.; pBluescript vectors, Phagescript vectors, pNH8A, pNH16a, pNH18A, pNH46A, available from Stratagene Cloning Systems, Inc.; and ptrc99a, pKK223-3, pKK233-3, pDR540, pRIT5 available from Pharmacia Biotech, Inc. Among preferred eukaryotic vectors are pWLNEO, pSV2CAT, pOG44, pXT1 and pSG available from Stratagene; and pSVK3, pBPV, pMSG and pSVL available from Pharmacia. Preferred expression vectors for use in yeast systems include, but are not limited to pYES2, pYD1, pTEF1/Zeo, pYES2/GS, pPICZ, pGAPZ, pGAPZalph, pPIC9, pPIC3.5, pHIL-D2, pHIL-S1, pPIC3.5K, pPIC9K, and PAO815 (all available from Invitrogen, Carlbad, CA). Other suitable vectors will be readily apparent to the skilled artisan.

Vectors which use glutamine synthase (GS) or DHFR as the selectable markers can be amplified in the presence of the drugs methionine sulphoximine or methotrexate, respectively. An advantage of glutamine synthase based vectors are the availabilty of cell lines (e.g., the murine myeloma cell line, NS0) which are glutamine synthase negative. Glutamine synthase expression systems can also function in glutamine synthase expressing cells (e.g., Chinese Hamster Ovary (CHO) cells) by providing additional inhibitor to prevent the functioning of the endogenous gene. A glutamine synthase expression system and components thereof are detailed in PCT publications: WO87/04462; WO86/05807; WO89/01036; WO89/10404; and WO91/06657, which are hereby incorporated in their entireties by reference herein. Additionally, glutamine synthase expression vectors can be obtained from Lonza Biologics, Inc. (Portsmouth, NH). Expression and production of